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The American Artisan
THE HARDWARE RECORD

Volume 42.—No. 9. CHICAGO, AUGUST 31, 1901. $2.00 Per Year.

Crying—to—do—business—without—advertising—is—like—winking—at—a—girl—in—the—dark; you—know—what—you—are doing—but—nobody—else—does.

BRADLEY SHELF BRACKETS.
Strong, Light and All Right.
ATLAS MFG. CO., New Haven, Ct.

We ship our Register orders promptly.
75 Sizes.
INDEPENDENT REGISTER CO.
158 Champlain Street,
CLEVELAND, O.

Our Facilities
are unsurpassed by any firm in the United States for the manufacture of
Stove Bolts,
Stove Rods,
Machine Screws,
Pointed Pins,
Threaded Wires,
Rivets,
Special Bolts,
Mica Bolts,
Cold Pressed Nuts.
We have a large *clientele* among stove men who appreciate our high quality, prompt deliveries and attractive prices. Let us hear from you.
Atlas Bolt & Screw Co.,
Cleveland, O.
Flat Head Counter Sunk Stove Bolt.

BOMMER SPRING HINGES.
BOMMER BROS. BROOKLYN, N.Y.

A UNIVERSAL REMEDY FOR
LEAKY ROOFS.
The valuable qualities of a good roofing cement are firm adhesiveness and elasticity. These qualities the
AMERICAN SEAL BUILDERS' AND ROOFERS'
ELASTIC OIL CEMENT
possesses. It will adhere firmly to Slate or Metal and will not crack or crumble. It is especially recommended for repairing leaks around chimneys, dormer windows, skylights, scuttles, firewalls and any place that requires fixing on a roof, either Slate, Tin or Shingle.
This Cement will answer to repair a roof when Solder can not be used.
MANUFACTURED BY
Wm. Connors Paint Mfg. Co.
TROY, N. Y.
WESTERN AGENTS—J. L. PERKINS & CO.,
241 Lake Street, - - - CHICAGO, ILL.
STOCKHOFF SUPPLY CO., ST. LOUIS, MO.

THIS SPACE FOR SALE
Inquire of Owner,
Daniel Stern, 69 Dearborn St.
CHICAGO.

Black Diamond Files and Rasps.
PERFECT—ALWAYS
Twelve Medals Awarded.
At International Expositions.
G. & H. BARNETT CO.,
Black Diamond File Works. PHILADELPHIA, PA.

Columbus Bolt Works,
Columbus, O.
Bolts,
Nuts,
Washers,
Turn Buckles,
Bridge and Roof Rods
and
Bolts
ALL KINDS OF CARRIAGE FORGINGS. CATALOGUE ON APPLICATION.

THE "GLOBE" VENTILATOR,
In Brass, Copper, Galvanized Iron and with Glass Tops for Skylight purposes.
FOR PERFECTLY VENTILATING
Schools, Churches, Halls, Mills, Factories and Audience Rooms of Every Character.
SMOKY CHIMNEYS CURED.
"Globe Ventilated Ridging"
Send for Pamphlet.
Manufactured by
GLOBE VENTILATOR CO., TROY, N. Y.
GLOBE
PATENTED
Feb. 29, 1876. May 9, 1876.
May 28, 1888. Nov. 26, 1889
Dec. 8, 1892. Jan. 30, 1894.

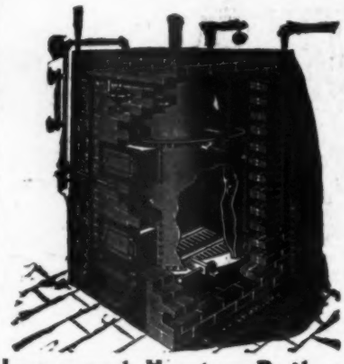
BOILERS AND RADIATORS

A Postal Card from you will bring valuable, complete information in regard to the best, most comprehensive, strictly modern line of these goods.

WRITE US TODAY.
New York, Boston, Philadelphia, St. Louis, Buffalo, Minneapolis, Denver, Detroit, London.

AMERICAN RADIATOR COMPANY

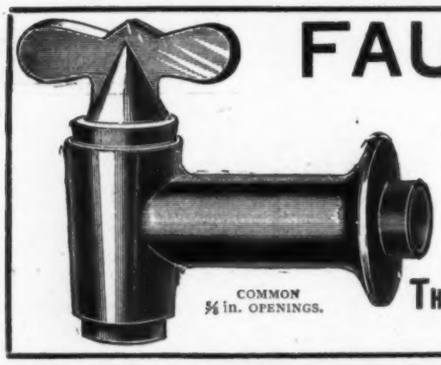
Lake and Dearborn Sts., CHICAGO.



Improved Haxtun Boiler

For Steam and Hot Water Heating. Magazine Feed. For Soft and Hard Coal. 18 years' successful use.

Kewanee Boiler Company, Kewanee, Ill.

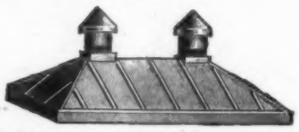


FAUCETS.

Beer
Milk Can
Oil Can
Cream Separator,
of Various Sizes and Styles.

COMMON ⅝ in. OPENINGS.

MFD. BY
THE CLARK NOVELTY CO.
ROCHESTER, N. Y.



"The Illinois"

METALLIC SKYLIGHTS

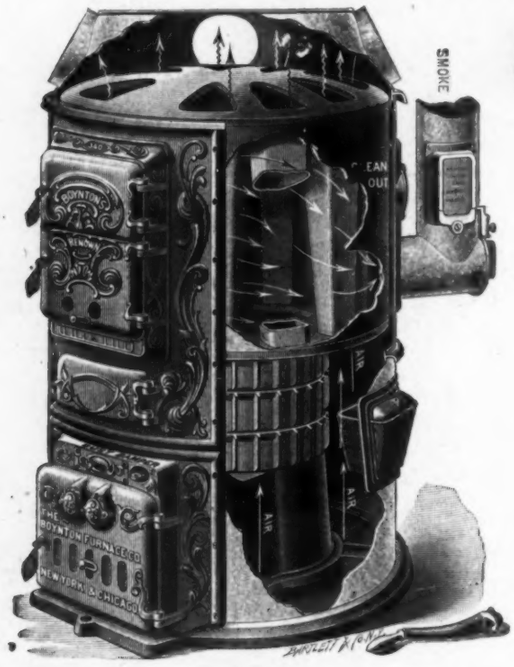
Are known in every State. Have stood the test for years. Are made in 10 styles and 500 sizes. Complete Skylight, Cornice and Finial Catalogue mailed free.

J. H. JONES, Mfr.,
Lock Box 33. STREATOR, ILL

C. C. Arbogast, Monterey, Va., writes: "I beg to take advantage of your kind offer of inserting a free want ad. in your journal. Am a regular subscriber to The American Artisan, and I can tell you, without an iota of flattery, that I find it indispensable."

The making of heating apparatus—

Hot Water Heaters, Steam Heaters and Furnaces,



is our Specialty. In over fifty years of experience we have met with about every phase of the heating problem. The manufacture of economical and durable heating apparatus has been our constant aim, and our success has been fully demonstrated by our long continuance in this line.

REMEMBER, efficiency and durability are the sure tests of cheapness.

Catalogues, Price Lists and Discounts cheerfully furnished the trade.

The Boynton Furnace Co.,

New York and Chicago.

QUICK MEAL

ENAMELED STEEL RANGE.

THE RANGE THAT LEADS

Is the Range that will make a reputation for the dealer.

Is a Range that speaks for itself and that will give a dealer the name of handling First-Class Goods.

Is the Range that will Command the Respect of all his Customers and make them talk of its Good Qualities.

"Quick Meal" Enameled Steel Ranges have their own Individual Features and the dealer has no trouble in showing WHY it is the Best and WHY it has become so Popular.

RINGEN STOVE Co. SAINT LOUIS

OAK NOVELTY

A beautiful and original, High Art Twentieth Century Oak. The Nickel is of the finest quality of Novelty Silver.

The Oak Novelty is a Double Heater, having a double casing with an inch air space between, admitting the air at the bottom of casing. It comes out at the top at an intense heat.

The Oak Novelty is mounted strictly air tight; has a screw draft in the ash pit door, and screw check draft in the feed door. When the Oak Novelty is desired as a coal burner air passes through the register in front of stove into perforated mixer ring around top of heavy fire pot, then out into fire, mixing the air with gases, producing perfect combustion, and great saving in fuel.

The Oak Novelty is made in four sizes:—14 inch, 16 inch, 18 inch and 20 inch, and makes a most beautiful parlor heater.

Abram Cox Stove Co.,

Philadelphia, Pa.

Chas. A. Rusco,

Manager Chicago Branch,

15-17-19 West Lake St.

BRANCHES - - Boston, Buffalo.
FOUNDRIES - - - Lansdale and Philadelphia.

Established 1847.

White's Stoves and Ranges

White's Poplar.
Nos. 12, 14, 16, 18.

White's Oak.
Nos. 14, 16, 18, 20.

The White's Poplar is a finely fitted and mounted cheap Oak Stove that will meet any competition.

The White's Oak with base cast in one piece is the best Oak stove on the market.

Write for Price List and Discounts.

Thomas White Stove Co.

QUINCY, ILL.

THE KING

Adapted for Heating School Houses, Halls and Factories.

A Large, Heavy Stove that has Stood the Test of Time, and will prove a Warm Friend in Cold Weather.

MADE IN THE FOLLOWING SIZES:

No. 21.	Height,	3 feet	9 inch;	Diameter,	16 inch	top fire	chamber.
No. 22.	"	4 "	½ "	"	19 "	"	"
No. 23.	"	4 "	3 "	"	20 "	"	"
No. 24.	"	4 "	6 "	"	22 "	"	"

If you have a Demand for a Stove of this Class, Our Prices will Interest You.

PITTSBURGH STOVE & RANGE CO.

PITTSBURGH, PA.

Western Sales Agent: W. D. Sager, 38 and 40 Michigan Street, Chicago, Ill.

Van's

Pat. Improved Wrought Steel Portable

Range.

For HOTELS, RESTAURANTS, PUBLIC INSTITUTIONS, BOARDING HOUSES and PRIVATE FAMILIES.

All kinds of Hotel Implements for Culinary Purposes.

Manufactured and For Sale by

The John Van Range Co.,

419 Elm and 410, 412, 414 & 416 Home Streets,

CINCINNATI, OHIO.

It's a Wonder

The Wonder Eclipse.

Circulator and Radiator.

A New Sheet Iron Air-Tight with a circulating feature of unequalled excellence. The body of the stove contains a heavy and tight-fitting fire-pot. All around this fire-pot, between it and the steel body is a space forming the Heating-Chamber of the Hot-Air Flue.

Cold air is taken in at the front on each side of main front, is heated around fire-pot, passes to the back, out through an opening in the steel body into the upright cast back flue and out into the room through openings in top of flue.

The body of this stove is 30 in. high, so that in addition to the circulating features it has a large radiating surface.

Inside space in fire-pot 22½x14½ in.

Fire Door opening 13x9½ in.

Nickel Parts:—Top Ring, Swing Top, Foot-rails, Name Plate and Turnkeys.

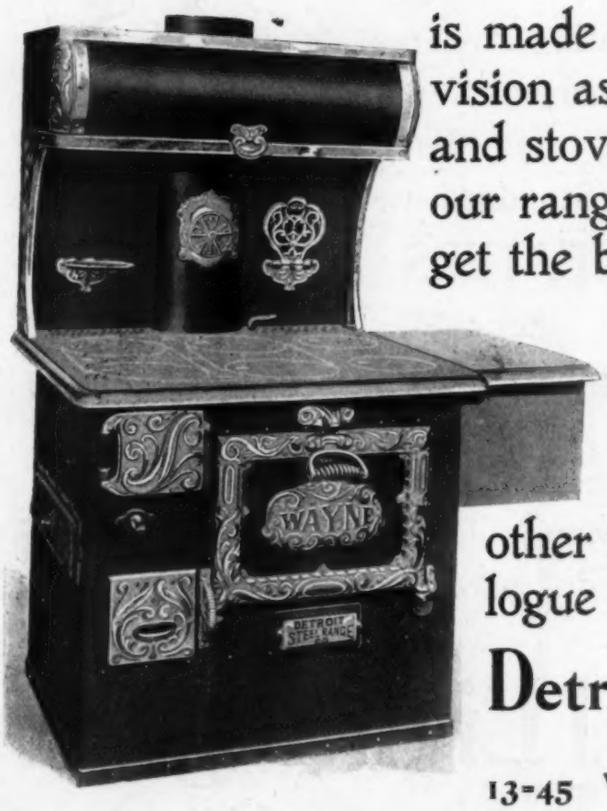
Furnished either straight Bottom, or with Drop Ash Pit, Shaking Grate and Ash Pan.

The Most Powerful Wood Air-Tight Heater Made.

WRITE FOR OUR 1901 FALL SUPPLEMENT. JUST ISSUED.

The Eclipse Stove Co.,
MANSFIELD, OHIO.

The Wayne Steel Range



is made under our personal supervision as are all our steel ranges and stoves. In the manufacture of our ranges we spare no expense to get the best material. This is put together by skillful mechanics whose work is supervised with a thoroughness unknown in other factories. Write for catalogue and prices.

Detroit Steel Range Co.

FACTORY AND SHOW ROOM:

13-45 Widman Place, Detroit, Mich.

Mogul Furnaces

fill a place that even the smaller furnaces do not fill because they are too light and small as well as too complicated and high priced.

Diameter of Fire Pot	19½ inches
Height to top of elbow	56 inches
Height to bottom of pipe collar	46 inches
Diameter of ring where casing fits	31½ inches
Weight	800 lbs

It has regular furnace joints and draw centre anti-clinker grate and the price is no higher than is asked for a good stove.

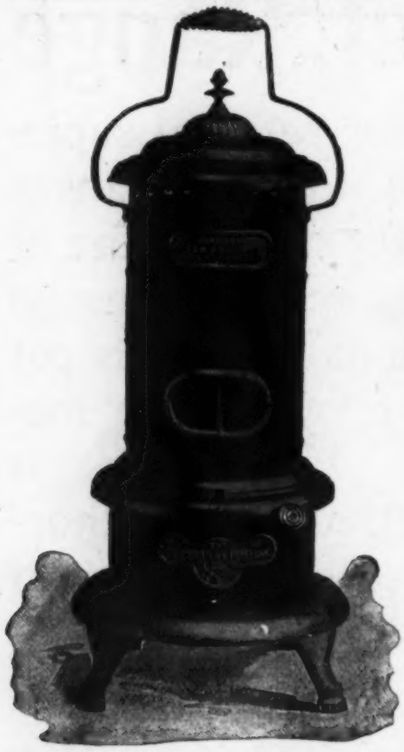
The Portsmouth Stove & Range Co.

PORTSMOUTH, O.

Morley Bros.

SAGINAW, MICH.

Agents for Northwest.



For Beauty, Simplicity, Convenience and Heating Power, The **Improved "New Process,"** and **"Improved" Standard**

OIL HEATERS

excel all others.

You must order early if you expect to get heaters this year. Our jobbers have them. Booklet ready.

The Standard Lighting Co.

CLEVELAND, OHIO.

Dauntless Ranges.

Made of Malleable Iron and Steel.

Many dealers while recognizing the advantage of Malleable Iron used in connection with Steel for high-grade Range construction have refused to handle them on account of the rough appearance of wha was offered.

Dauntless Ranges will satisfy the most exacting. All Sizes; Any Equipment; Planished Bodies; Polished Tops.

Write at once for prices.

Dauntless Mfg. Co., BEAVER DAM, WIS.

Apply All The Tests

to **Schill's Furnaces and Ranges,** and they will fill the bill every time. Whether the test be durability or economy of fuel, satisfaction to the user or salability. They never fail to meet every requirement.

Write for Catalogue and Prices.

The Schill Bros. Co.,

CRESTLINE, O.

COMMERCIAL LAW. COLLECTIONS.

THE AMERICAN ARTISAN AGENCY,

LAW AND COLLECTION DEPARTMENT OF

THE AMERICAN ARTISAN,

UNDER MANAGEMENT AND PERSONAL SUPERVISION OF

RALPH F. STERN, Atty. 69 Dearborn Street, CHICAGO.

Today is the time to attend to your past-due accounts. Let us help you.

We have a thoroughly organized Collection Department. Collections made anywhere.

Full reports furnished and remittance made the same day collection is made. Careful attention guaranteed in each case.

Rates reasonable, and no charge where no collection is made.

No membership fee.

Reliable attorneys in every city and town. Claims prosecuted without litigation whenever possible. Long distance telephone in office.

PHONE EXPRESS 677.

CHICAGO REFERENCES:—
Chicago Engineer Supply Co.
Babcock & Wilcox Co.
Robert Stevenson & Co.
Regan Printing House.
And any National Bank in Chicago.

THE AMERICAN ARTISAN AGENCY,

RALPH F. STERN, Attorney,

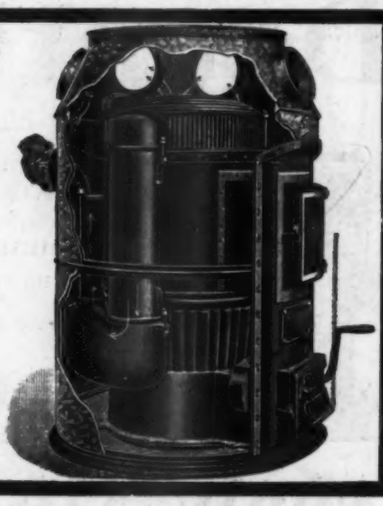
69 Dearborn St., CHICAGO

15

That's the number of distinct types of **FLORAL CITY** warm air and combination heaters for any class of work or any kind of fuel.

Monroe Foundry & Furnace Co.,

MONROE, MICH.



BRAND STOVE CO.

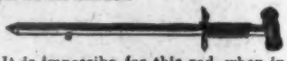
We make largest line of cooking and heating apparatus, cast cooks, cast ranges, steel cooks, steel ranges, hotel outfits, heating stoves, furnaces, hot water and steam heaters. Send for catalogs.

MILWAUKEE, WIS.

The YANKEE Hot Air DAMPER (Improved) All Steel.

Above All, Cheapness—a dealer cannot possibly make dampers as cheaply as we sell the Yankee. Easily put in and taken out of pipes. Stiffest, quickest working and neatest damper on the market.

ROD POINTS: Has wood enameled handle. Wood handle cannot come off. Washer and spring cannot fall off the rod. Same size of holes are punched on each side of pipe. Rod is made of ½-inch cold-rolled steel and slips into damper very smoothly. **Sample sent to any dealer without charge.**



It is impossible for this rod, when in position, to move either way.

The S. M. HOWES CO., Manufacturers, 40-46 Union St., Boston, Mass.

NEW YORK: A. L. Canfield, 248-286 Pearl St. CHICAGO: Excelsior Steel Furnace Co.

Sizes: 6, 7, 8, 8½, 9, 10, 10½, 11, 12, 12½, 14, and 15.

Emperor Furnaces

For Wood

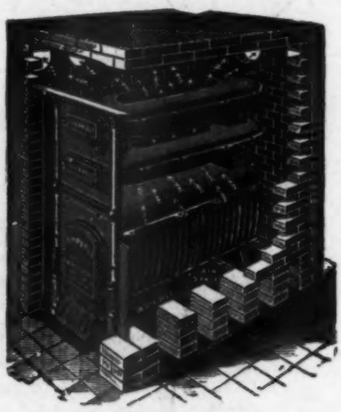
Simple. Safe. Durable.

The Best and Cheapest Line of Wood Furnaces.

Furnished for Either Brick or Galvanized Iron Casing. Send for Catalogue.

Bergstrom Bros. Co.

Neenah, Wis.



Wisconsin Furnaces

stand for the best in furnace construction. They have features which make them trade winners.

Get our prices and printed matter.

Phipps Furnace Co.,

135 ONEIDA ST., MILWAUKEE, WIS.

DON'T READ THIS

Unless you are interested in down-to-the-minute advertising. Have had over 15 years' practical advertising experience with some of Chicago's most successful Manufacturers, Jobbers and Retailers. Am at present engaged with a very large advertiser, but have time to spare and will do a limited amount of work for any one who desires first-class ADVERTISING SERVICE at very reasonable rates. Write for further Particulars.

FRANK. E. RUBOVITS,

233 Fifth Avenue, - - Chicago, Ill.

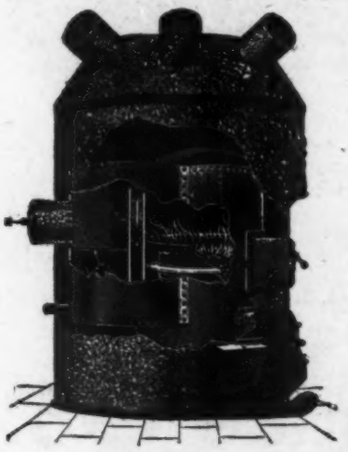
STAR STOVES AND RANGES
ENTERPRISE STOVE CO. VINCENNES, IND.
GUARANTEED

CATALOGUE SHOWING

Gas Ranges
Cast Cooks
Steel Ranges
Cast and
Cast Ranges
Steel Heaters
Steel Cooks
Hot Plates

WILL BE FURNISHED FOR THE ASKING BY

Enterprise Stove Co.
VINCENNES, IND.


Weir Furnace.

Weir ALL STEEL GAS AND SOOT CONSUMING **Furnace.**

The Heaviest Steel Furnace Made.

Absolutely gas and dust tight.
A great heat producer, but a fuel saver.

MADE IN TWELVE SIZES.

"The Handy Furnace Pipe"

The saving of labor in putting it up really makes it the cheapest hot air pipe on the market.

Is Absolu e y Safe.

Handy Pipe.

Manufactured by

Meyer Furnace Co.

Send for Catalogue. **PEORIA, ILL.**

Many a Dealer Has Gone to the Wall

Trying to handle goods that are only made for a few—the "so-called high grade" kind. . . . . .

Willard Steel Ranges "ARE AS GOOD AS THE BEST."

Made to meet the demand of the masses. If you are not already selling them, write and see if you can't secure the agency. Want one dealer in every town in the U. S.

WM. G. WILLARD, Manufacturer,

619 and 621 N. 4th St. ST. LOUIS, MO.

A Revival of Business

is certain to follow the introduction of **Colebrook's Asbestos Furnace Cement and Stove Putty** in the manufacture of your stoves and furnaces. We do manufacture Asbestos Furnace Cement and Stove Putty for a great many particular people, why not for you as well? Colebrook's Asbestos Furnace Cement and Stove Putty has no equal. Can we not furnish your next order? Put up in all size removable cover cans, tubs, barrels and half-barrels.

Manufactured only by

W. H. COLEBROOK. SONS & CO.
SYRACUSE, N. Y., U. S. A.

CHAS. SMITH CO., Western Selling Agents, 122 Lake St., Chicago, Ill.

Largest Makers of Asbestos Furnace Cement in the World.

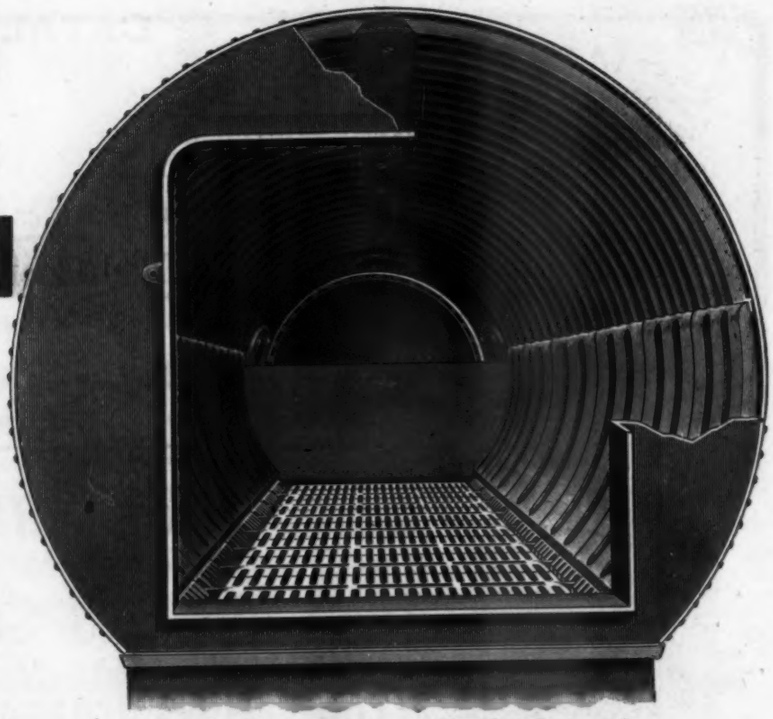
A Powerful Durable and Economical Heater.

For Schools, Churches, Halls and Other Public Buildings. Has a Heating Capacity of from

150,000 TO 200,000 CU. FT.

Are you not in need of just such a Heater?

Write for our 1901 Catalogue.



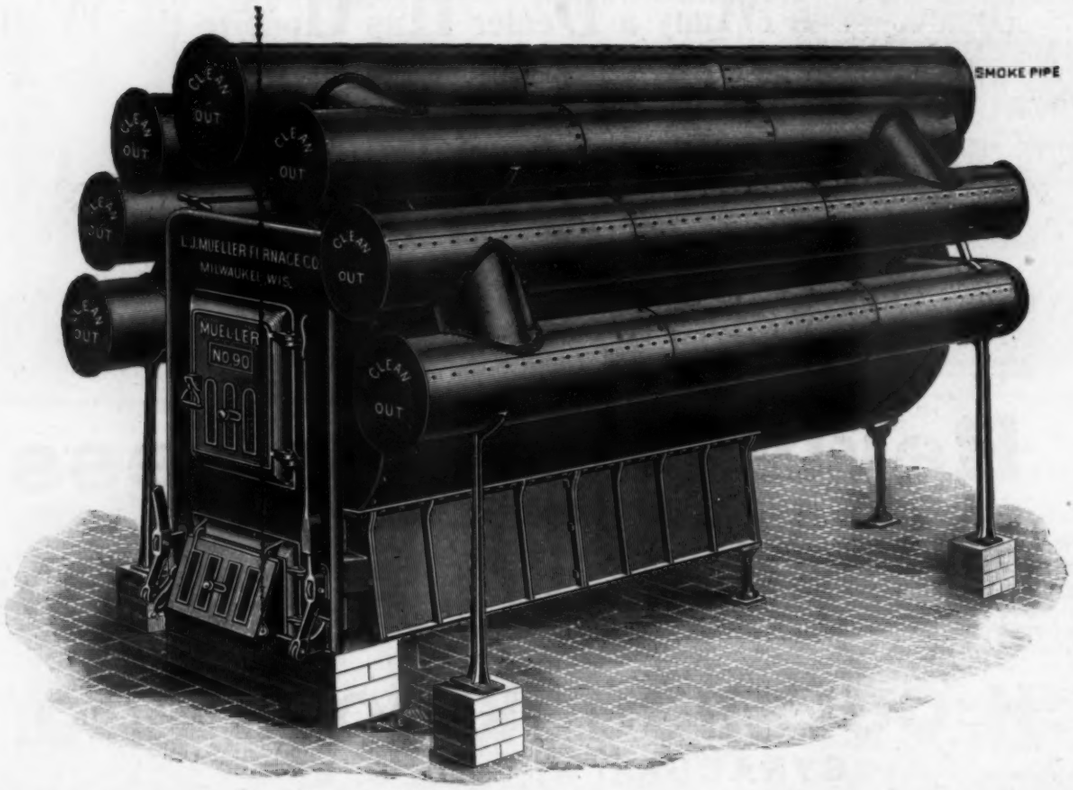
Interior View of No. 90-A, Showing Grate and Hollow Fire Box Liners.

EVERYTHING IN THE HEATING LINE.

L. J. Mueller Furnace Co.

ESTABLISHED 1857.

191 REED ST., MILWAUKEE, WIS.



CANNOT BE SURPASSED

MUELLER SCHOOL AND CHURCH FURNACE. No. 90 for Hard Coal. No. 90-A, for Soft Coal. No. 87, for Long Wood.

JEWEL STOVES AND RANGES..

JEWEL STOVES AND RANGES
DETROIT STOVE WORKS
LARGEST STOVE PLANT IN THE WORLD

A Complete, Well Advertised Line;
Low Prices and Good Workmanship.

Please Write for Catalogue.

DETROIT STOVE WORKS.

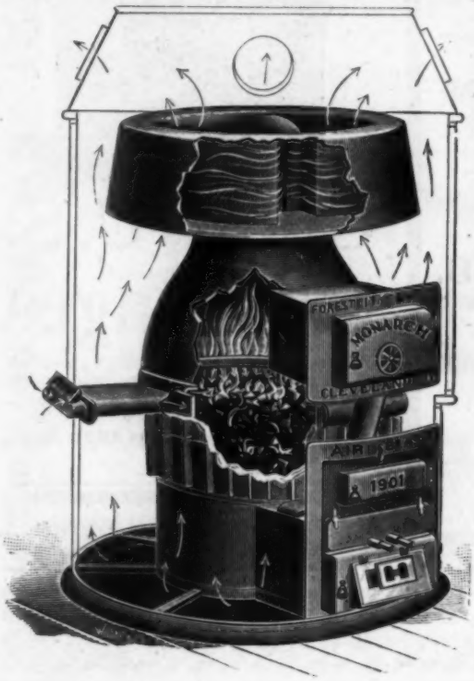
Detroit - Chicago.

Gilt Edge Warm Air
AND
Combination Heaters

are leaders embodying points of furnace excellence possessed by no other furnaces. A large variety of sizes and styles, each especially adapted for a certain class of fuel. We are manufacturers of a complete line of warm air registers, safety pipe and tin galvanized iron furnace fittings.

R. J. Schwab & Sons Co.,

MILWAUKEE, WIS.



Monarch Air Blast Furnace

STOP! Now and write for our catalogue and price list. The Monarch Air Blast (all cast iron) will make you money and build for you a reputation in the Heating Business, it has done so for **OTHERS.**

The Forest City Foundry & Mfg. Co.

CLEVELAND, OHIO.

The House Warming Manual

Contains the Essays on Warm Air, Hot Water and Steam Heating submitted in THE AMERICAN ARTISAN competition for $300.00 prizes.

The House Warming Manual

Contains the combined wisdom of leading experts in the three great branches of heating, rather than the conjectures of a single man.

The House Warming Manual

Is up-to-date, not out-of-date;
Practical, not theoretical;
And is in fact a mirror of the heating practice of to-day.

270 pages. Bound in red, with cover embossed with gold.

Price, $3.50 per Copy.

ADDRESS:

DANIEL STERN,
90 Dearborn St., CHICAGO.

Finest in the World.

Try a Case from Your Jobber

Large 10-oz. Can with Brush.
Packed One Dozen in Case.

Price,
$1.50 Per Dozen.

NICKEL PLATE STOVE POLISH COMPANY,
Manufacturers **CHICAGO.**

Our Latest Production of **"Champion"**

Double Flue Hot Blast Steel Ranges

Guaranteed to Give Satisfaction with Any Kind of Fuel.
They are Finished in Japan, Polished Steel or Russia Iron.

Champion Steel Range Co.
CLEVELAND, OHIO.

We are represented by the Following Houses:

Lee-Glass-Andreesen Hdw. Co., Omaha, Neb.
James Graham & Son, San Francisco, Cal.
Michigan Distributing Co., Lansing, Mich.
J. M. Litchfield, New York, N. Y.
Kettlesen & Degetan, Chihuahua, Mex.
Moore-Handley Hdw. Co., Birmingham, Ala.
Richards & Conover Hdw. Co., Kansas City.
Chicago Stove & Range Co., Chicago, Ill.
Jacob Retterer, Chicago, Ill.
Corbett, Failing & Robertson, Portland, Ore.
Palmer Hdw. Co. Savannah, Ga.

Ohio and U. S. Wrought Steel Ranges

We are pioneers in steel range business; old in experience yet adopt modern up-to-date methods. Write for our catalog.

Tinnerman Steel Range Co.,
CLEVELAND, O.

Advertising is the root of all money.

Wm. Reckmeyer & Son, Arlington, Neb. Write:

"Please discontinue advertisement in want column. We received replies from quite a number."

100 Tinners' Patterns.

THE AMERICAN ARTISAN FULL SIZE PATTERNS Printed on Manila Paper from which they are readily transferred to Heavy Sheets and cut out ready for use.

The Full Set of 100 Patterns, Price, sent postpaid for

$1.00.

ADDRESS

DANIEL STERN,

Publisher,

69 Dearborn St., CHICAGO.

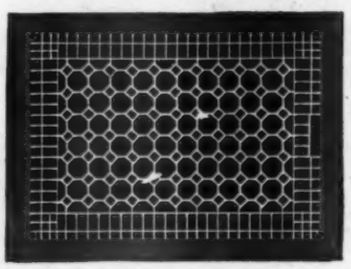
The New Hero Furnace.....

Is especially adapted for a combination of hot air and hot water. All Cast Iron, for Low Basements, Coal or Wood. Made in three sizes for large residences and public buildings.

The Chas. Smith Co,
122 Lake St., CHICAGO.

Henry & Scheible Co.

SUCCESSORS TO T. E. HENRY.
10 Long St. CLEVELAND, O.



ALL SIZES—ALL STYLES OF FINISH. PROMPT SHIPMENTS
Quality and finish unexcelled.

SEND FOR CATALOGUE.

No. 230.

Draft Register Screw and Plate

COMPLETE

MANUFACTURED BY

The Fanner Manufacturing Co.
CLEVELAND, OHIO.

Plumbing,

Drainage,
Water Supply
and Hot Water
Fitting.

By John Smeaton, C. E.

CONTENTS:

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Price, $3.00.

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Chicago.

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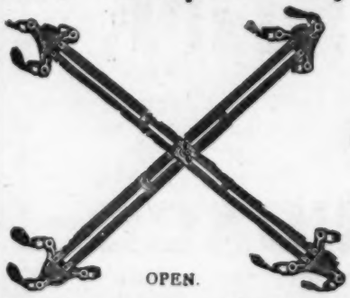

OPEN.

CLOSED.

It is light, neat, and at the same time strong and durable. Will last a lifetime and saves its cost annually in preventing breakages, as it is impossible to tip or shove a stove from the ECLIPSE TRUCK.

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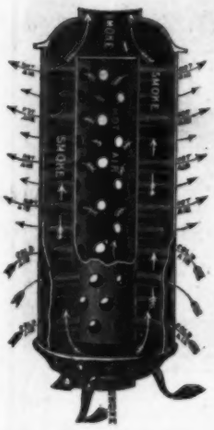
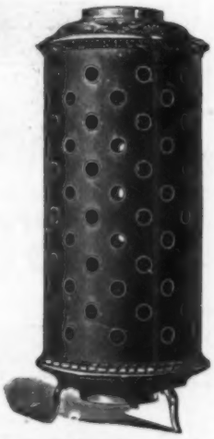


COUNT THE TUBES

IN THE

Rochester Radiator

and you will comprehend the great radiating surface directly over the hot current where one square inch is better than six at the side.



Rochester Radiator Co.,

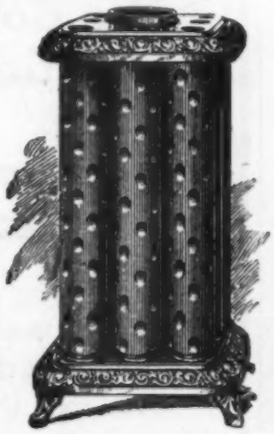
120 Furnace St., Rochester, N. Y.

We are sending money to you. Our advertising will bring inquires to your store and every inquirer means a profitable customer.

Are you prepared to show the

New Era Radiators

they will ask for? Or are you going to let this business go to your competitor? Send for price list—we can satisfy you that we have a money making proposition for you.



WILMOT CASTLE & CO., = = 77 Elm St., Rochester, N. Y

The Star Extension Stove Back

Adjustable in width from 4½ to 7 inches; in length from 14 to 22 inches.

The corrugations prevent ashes from lodgment on the back. It can be easily fitted into any stove.

The Schreiber & Conchar Mfg. Co.,

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Make Your . .

Advertising Pay

By using our Advertising Cuts for Hardware Men. The best and the cheapest. Send for Circular

DANIEL STERN,
69 Dearborn Street,
....CHICAGO.

Registers and Ventilators.

A Full Line, Unique Designs

Quality and finish unexcelled. All styles of finish, from Japanned to Gold Plated.

Send for Catalogue.

The Philadelphia Hardware and Malleable Iron Works

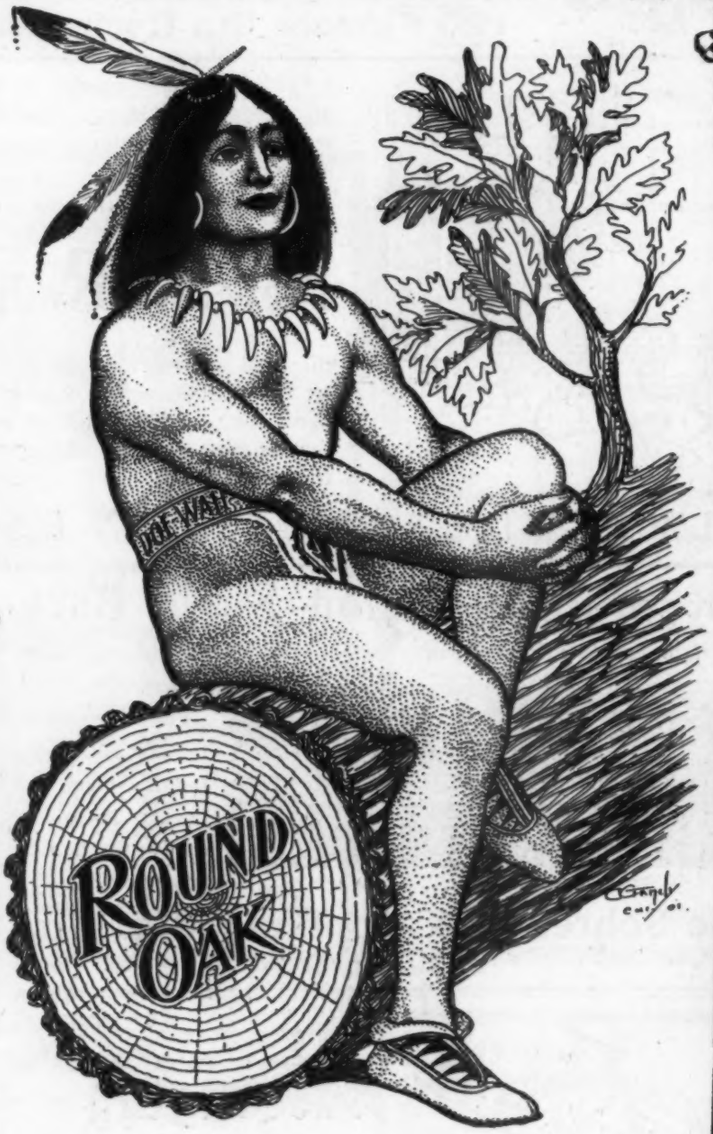
Philadelphia, Pa.

ROUND OAK-
STANDARD OF AMERICA

CYRTIS GANDY DEL CHICAGO 1901

We do not run down other people's furnaces

under any circumstances. We say there are cheap furnaces just as we say there are cheap stoves. We also say that it is poor policy for any dealer to handle a cheap furnace and we are prepared to prove it.



Estate of
P. D. Beckwith, Dowagiac, Mich.

MAKERS OF GOOD GOODS ONLY.

35

ESTABLISHED 1880

THE AMERICAN ARTISAN & HARDWARE RECORD

Representative of the Stove, Tin, Hardware, Heating and Ventilating Interests.

PUBLISHED EVERY SATURDAY.

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CHICAGO, AUG. 31. 1901.

THE population of Ireland has fallen from 8,175,-124 in 1841 to 4,456,540 in 1901. Each decade shows a steady decrease.

THE activity of German manufacturers and exporters is illustrated by some figures regarding the imports of pig iron into Germany and the exports of iron and steel manufactures, which have just reached the Treasury Bureau of Statistics. They show that the importations of pig iron increased from 462,000 tons in 1897 to 830,000 in 1900, and those of rough iron ware, from 43,000 tons in 1897 to 73,000 tons 1900; while the exports of iron and iron ware increased during the same period from $82,000,000 value to $118,000,000; machines, from $30,000,000 to $45,000,000; rolling stock and ships (not wood), from $3,000,000 to $9,000,000, making the total increase in these three items of iron and iron ware, machines and rolling stock and ships, from $114,000,000 to $172,000,000 in a period of three years.

IN another column is a letter from the senior partner of a leading Wisconsin hardware firm, in which they point out the annoyance to which they have been subjected through the discourtesy of tinners advertising for a situation who have not answered their letters. A tinner or hardware clerk who advertises for a situation in a paper with a large circulation among employers of such labor, must naturally expect a number of replies. He would naturally feel hurt to receive a letter offering him a position and to learn later that the position was filled before his reply was received. He naturally expects this courtesy from the merchant. On the other hand, is not the merchant entitled to equally courteous treatment from him in case the applicant has secured another position before hearing from the merchant? A brief reply stating that the applicant has already secured a position is a business courtesy that should not be neglected.

An applicant for a position is also entitled to the courtesy of a note stating that the position he is seeking has been filled—a courtesy that many merchants neglect.

WHETHER one's sympathies are with the United States Steel Co. or the Amalgamated Association of Iron, Steel and Tin Plate Workers in the present conflict, they must deprecate the demagogic action of the Mayor of McKeesport, Pa., who, on Aug. 24 last, deputized twenty-five extra policemen, all members of the Amalgamated Association of Iron, Steel and Tin Plate Workers, to serve about the United States Tin Plate Works. The strike policemen are expected to furnish protection to any strike breaker who may be brought into the plant. We seem to see a non-union man going to work under such "protection" as this. The non-union men who go to work in this plant, whether their stand be approved or not, are certainly entitled to police protection. One can imagine the happy lot of a non-union sheet metal worker, surrounded by a howling mob of infuriated strikers and "protected" by the kindly aid of deputized strikers.

THE growing disposition of the islands and countries adjacent to the United States, and especially those of the West Indian group, to trade with the United States is illustrated by some figures just received by the Treasury Bureau of Statistics, regarding the commerce of Jamaica. These are contained in a British colonial report on Jamaica for 1899-1900. They show that of the exports of Jamaica, 57 per cent were sent to the United States in 1896, while in 1900 the share sent to the United States was 63.6 per cent. To the United Kingdom the share in 1896 was 27.6 per cent, and in 1900 19.2 per cent. The report says: "The value of the exports from Jamaica which go to the United States continues to increase in total value and in proportion to the whole amount of the trade. The exports to the United Kingdom diminish steadily. This tendency is largely due to the development of the fruit trade, which has hitherto been almost exclusively with the United States." The increase in exports to the United States has been accompanied by an increase in the percentage of Jamaican imports which come from the United States. In 1896 the percentage of Jamaican imports taken from the United States was 41.8 per cent, and in 1900 43 per cent; while the proportion from the United Kingdom, which in 1896 was 48.1 per cent, was in 1900 47.2 per cent.

THE growing belief that the United States will shortly be able to produce from beets the $100,000,000 worth of sugar which her people now annually import, seems to be shared by British Consul Wyndham, who has given the subject close attention and reported upon it to his government. The following is an extract from his report, which has just reached the Treasury Bureau of Statistics: "The production of beet sugar in the United States is rapidly increasing, and in the Chicago consular district there are four factories in the State of Illinois, three in Nebraska, and three in Colorado; those in Nebraska and Colorado belong to the American

Beet Sugar Co., and are at Grand Junction, Rocky Ford and Sugar City, and when fully completed will employ thousands of hands. Statistics indicate that the United States consumes more sugar than any other nation, or approximately one-quarter of the whole of the world's product. The conditions of soil, climate and other advantages are quite as good in the United States, and especially in Colorado, Nebraska and Illinois, for the development of the beet as in any of the countries of Europe or Asia. The world's production and consumption of sugar is now about 8,250,000 tons per annum, two-thirds of which is produced from beet and only one-third from cane, whilst the normal consumption is estimated as increasing at the rate of 250,000 tons yearly.

RANDOM SKETCHES.

BY SIDNEY ARNOLD.

THERE is nothing mysterious about forming a retail trade association.

It is not a herculean task to organize.

The hardware men in your town can give each other valuable information in regard to dead beats.

They can have an understanding as regards holidays.

They can agree about hours of closing.

They can join hands in pushing an anti-steel range peddler law.

They can buy goods together.

They can make the deadbeats life one sweet, sad song.

They can organize a co-operative delivery system.

While they cannot absolutely keep jobbers from selling consumers in their town, they can make this such a risky procedure that there will be very few *sub rosa* sales.

* * *

I NOTICE that my article in this column last week, on the advisability of trade unions incorporating so as to secure legal recognition, seems to have foreshadowed J. Pierpont Morgan's opinion on the same subject, as, Aug. 28, he declares that he has decided not to treat with the leaders of the Amalgamated Association of Iron, Steel and Tin Workers until that body becomes incorporated and places itself in a position where it is responsible for breach of contract and damages can be obtained by the corporations in case the men in future violate their agreements. This news is official and it is expected in the near future to revolutionize labor organizations, not only in the steel and iron industries, but also in other branches of labor throughout the United States. It means that in case troubles should again arise among the bituminous miners, President Mitchell and others will be required to show they are the heads of incorporated bodies, with sufficient capital to render it dangerous for them to trifle with the mining companies, lest they entail losses on the entire membership of the organizations which they stand for.

* * *

THE loafer kicking his boots listlessly against the sides of the sugar barrel in the corner grocery, fairly oozes advice to President McKinley as to the way this republic should be run. There's many an aged dame who can give the minister points on preaching, and who bursts into tirades against the incompetency and ignorance of the family physician. There may be a few people who concede that they are unfitted to wield the editorial pen, but they are not in evidence to any large extent.

The methods of these various editorial advisers are as varied as the sands of the sea. One says: "Dear Editor. I appreciate the fact that you have to work real hard to get enough matter to help you fill your paper each week, and consequently I have concluded, out of the goodness of my heart, to help you out. Enclosed find a three-page article giving the history of Samuel Goodthing, president of The Goodthing Adjustable Handle Bar Co. We also send a photograph of Mr. Goodthing, another of Mr. Goodthing and his family, and a third of Mr. Goodthing surrounded by his employes. You can easily get half-tones made of these, and after you have used them in the paper would you kindly send them to us, to save us the expense of having them made. We would also be glad to help you increase your circulation by taking from 500 to 1,000 extra copies of this issue and mailing same where they are sure to do you a lot of good at our expense. Kindly advise us at once of your acceptance of this offer of ours, as this same matter has been solicited by a number of your competitors and we desire to give you the preference.

"We regret that our advertising appropriation for 1901 and 1902 is exhausted, or else we would be glad to run a inch single column advertisement in the issue in which the write-up of Mr. Goodthing appears."

Here, certainly, is a fine opportunity to acquire "copy" easily and expeditiously. Is not an editor foolish in hustling around for items of trade news and in figuring on ways of getting full details of fires, deaths, incorporations, meetings, new goods, etc., when all he needs to do is to accept the kind assistance of the president of the Goodthing Adjustable Handle Bar Co.? What is the necessity of paying telegraph tolls in wiring for the photograph of some prominent man in the trade whose sudden death is announced, or in explaining to your photo-engraver just how he should make a cut of a convention souvenir in order to make it most effective, when right here on your desk are the half-tones of Goodthing *solus*, the Goodthing family and the Goodthing industrial family?

After the dictation of a gentle but firm letter, in which Goodthing is thanked for his kindness, but his offer is regretfully refused, etc., the next matter to be taken up is a letter from Bluff & Co., whose talk is something like this: "Gentlemen: The best trade journals are those which keep their columns alive with the latest trade news, and those who do not do this are back numbers. We send you herewith an item of news which will deeply interest your readers, and trust you will send us a copy of the paper containing same. Do not cut this matter down in any way, as that would utterly spoil it and make it valueless to your readers." the "item of the news" referred to is a grandiloquent puff from a cheap write-up paper, whose date is about

eight months back, and which runs something like this: The greatest, grandest and finest factory in the world devoted to the manufacture of superlatively fine pot scrapers, is that of our peerless and progressive fellow townsmen, Bluff & Co. Their handsome manufactory, 10x10 feet in size, is a teeming hive of systematic industry that is a marvellous exemplification of the unrivaled industrial progress of the Twentieth Century," etc., etc., the entire article taking up about two pages.

A third letter is one from Small & Little, who make husking mittens, and who say: "Here is an important item of news which we hope you will run in a good position on your news page. We want you to run subheads as shown, in a good daily newspaper style, and run the words in small caps as shown in copy. Do not fail to put this in, as a number of your readers are looking for it.

"P. S.—Run this as a reading notice, not as an advertisement, as we do not believe in advertising.

Subjoined is this valuable reading notice:

THE
Best Husking Mitten

ALL HUSKING MITTENS ARE ECLIPSED BY THE PEERLESS.

THE HARDWARE TRADE ARE DISCARDING OLD TYPES OF HUSKING MITTENS AND SELLING ONLY THE PEERLESS.

A representative of this paper has learned of a BIG CHANGE in the husking mitten market. That enterprising firm, SMALL & LITTLE, of Wahoo Juct, Arkansas, have sold TEN TIMES AS MANY OF THEIR HUSKING MITTENS this year as all OTHER FIRMS in the business combined. We advise all our readers to ORDER GOODS from them at once. If they don't they will have to put up with the INFERIOR ARTICLES made by their UNSCRUPULOUS COMPETITORS."

Now these people are not figments of the imagination by any means. A slight change in the style and nomenclature of the letters of Goodthing, Bluff & Co., and Small & Little and they will not differ widely from communications received in every trade paper office in the country. There are a number of business men who, presuming on their standing in the trade, imagine that because they are in some way interested in the line of business represented by a trade paper, they have a natural right to be consulted in its management, and to have a portion of its space set aside for their use, although they, as a rule, are magnanimous enough to waive the former of these rights. Newspaper space is a publisher's stock in trade, just as emphatically as lemon squeezers or bolts or steel cooks are commerical assets in other lines. Suppose the publisher of a hardware paper should send this manifold letter to all the dish washing machine manufacturers in the country:

"Dear Sir: I have been forced to economize and dismiss my cook lady. My wife says she won't wash dishes unless I secure her a dish washing machine. After due thought she and I have selected your machine as the one we want. My business as the publisher of a leading hardware paper puts me in a position where I have the right to request you to forward one of your latest machines to my address, given herewith, free of charge. As we are in no great hurry for this, you can send same by freight and save yourselves the difference between freight and express charges."

Would the publisher sending out this letter get many washing machines? Would he even escape the imputation of being considered a fine candidate for the detention hospital? At any rate, the dish washer manufacturer receiving one of these letters would consider that his feelings had been very brusquely ruffled. And yet, every day, manufacturers do not scruple to demand as a right frequent notice of their personal and business doings in the trade press, although if trade journalism depended for existence on the liberality of many of them it would speedily come to an early demise. All trade papers do plenty of free advertising, and if one started to charge up free reading notices at their just relative value in regard to advertising, it would be found that many a paper gave away more space than it was paid for. Free advertising is a necessary benefit to the patrons of a paper who desire to be informed of all matters of trade interest, new manufactures, new inventions, and for the most part the trade press fulfills this function without regard to the standing different persons may have in the counting department. But, of course, no trade paper can be absolutely independent of business considerations, as such a course would work an injustice to its friends and would be a poor return for their kind recognition of its honest efforts to advance trade interests, which the non-advertising and non-subscribing manufacturer overlooks, and yet seeks to profit by.

In looking over back numbers of THE AMERICAN ARTISAN I find that on Aug. 15, 1891—just a decade ago—this paper made the following forceful declaration of policy along the identical line of this article:

"It is as well that the fact should be clearly stated now as at any other time that THE AMERICAN ARTISAN, while earnestly striving to do justice to all, cannot be induced to neglect its friends to further the interests of those who would use its pages under the specious plea that the editorial and business departments of a trade paper should be distinct and separate. Translated into plain English, this means, from the point of view adopted by those who advance it, that they are not above reaping pecuniary advantage from gratuitous mention in papers to whose support their financial contribution is represented by a cipher. This is the view which does not appeal to our sense of justice: when it is illuminated by the knowledge we possess, that some who hold these opinions studiously follow a policy of discrimination themselves when placing their paid advertising, it becomes a farcical inconsistency. An independent and self-respecting journal should not, of course, go out of its way to discriminate injuriously against business men whose ideas of justice are so notoriously out of plumb. When, however, the question is one between friends and patrons and those who assume the attitude of foes, if they are not foes in fact, the path of the vigilant journalist who has the interest of his paper at heart is as plain as if it were illuminated by the beams of the noon-day sun."

News Siftings.

The Bostick Stove Works, Lapeer, Mich., started work on Aug. 15 with a force of 40 men.

A press dispatch from Albany, N. Y., dated Aug. 26, states that a syndicate have been negotiating for the purchase of the stove plant of Rathbone, Sard & Co.

The Pennsylvania Stove Co., Sharon, Pa., have purchased an abandoned factory at Ellwood City, that state, and will fit it up for the manufacture of stoves and ranges.

By the purchase of 168,000 shares of Bethlehem Steel Co. stock, which Chas. M. Schwab was under commitment to pay for, J. P. Morgan & Co. have secured control of this corporation.

Erasmus Wilson, A. H. Hollenbeck, T. H. Wilson, R. H. Knight and C. C. Knight are the incorporators of the Los Angeles Fire Brick & Clay Co., Los Angeles, Cal., capitalized at $70,000.

The trade will extend their sincerest sympathy to Felix Kahn, of F. & L. Kahn & Bros., Hamilton, O., on account of recent death of his wife, which took place at Atlantic City, N. J.

The Monarch Stove & Mfg. Co., Mansfield, O., send us a postal calling attention to the fact that their Monarch gas heaters for the season of 1901 embrace a very complete line of patterns and prices.

A. C. Pope, of the Standard Steel Range & Mfg. Co., Cleveland, O., was a recent caller at THE AMERICAN ARTISAN office. Mr. Pope is on a western trip in the interests of the Standard steel ranges.

E. C. Hanrahan, manager of the Chicago office of the Peninsular Stove Co., Detroit, Mich., was a recent caller at THE AMERICAN ARTISAN office. Mr. Hanrahan is enjoying an excellent volume of business.

The Dauntless Mfg. Co., Beaver Dam, Wis., are manufacturers of the Dauntless ranges, which are made of malleable iron and steel. They are made in all sizes, any equipment, with planished bodies and planished tops.

R. J. Elliott, president of the Northwestern Stove Co., 312 Hennepin avenue, Minneapolis, Minn., favored this office with a recent call. This firm are jobbers of stoves, furnaces, hardware specialties, stove repairs, hotel and restaurant kitchen outfits and tin work.

A dispatch from Spokane, Wash., dated Aug. 27, states that the Washington Foundry Co. have been incorporated at that place, to make ranges and all grades of stoves, coat hangers, toasters, egg beaters, soap racks and card cases from scrap iron. Samuel Katzenstein, Arthur Katzenstein, Thomas Caufield and Ellsworth Caufield are the incorporators.

The Wm. Resor & Co., Cincinnati, O., are greatly pleased over the following testimonial they received from Walter Stembel, Oxford, Ind., under cover of Aug. 23: "Will you kindly send me your catalogue and price list of stoves. I am of the opinion that you manufacture one of the best stoves on the market, as we have used one of your heating stoves thirty-five years, and it is a good stove yet."

The Standard Lighting Co., Cleveland, Ohio, sends us a little circular describing their improved Standard smokeless oil heater. This heater is made of sheet metal and is light and durable. The base is finished in antique copper and the upper part has aluminum bronze trimmings. The fount is made of a heavily coated terne plate, and is lacquered inside. There is an automatic extinguisher for the wick.

The Los Angeles Stove & Mfg. Co. have been incorporated at Los Angeles, Cal., with $25,000 capital stock, of which $11,500 is subscribed and fully paid up. The directors are E. H. Knapp, W. F. Giles, Geo. S. Porter Jr., M. E. Porter and James M. Merrit. This firm will job steel and cast cooks and ranges, gasolene, gas and oil stoves, and will manufacture a line of air tight heaters, camp stoves and ovens.

The Cincinnati Merchant and Manufacturer, of recent date, calls attention to the revival of the stove industry in that city, a leading factor in which is the growth in the business of The Wm. Resor & Co. This firm have premises covering an area of 400x500 feet. They have a massive three-story brick structure, with engine room, warehouse and molding room. In their plant all the latest machinery and castings will be found.

The many friends of that popular stove man, Walter Clark, president and treasurer of the Phillips & Clark Stove Co., Geneva, N. Y., will be pained to learn that he has been confined to his bed for the past two weeks under the charge of a trained nurse, and that he has been forced to submit to a serious surgical operation. However, we are glad to be able to announce that Mr. Clark is convalescing rapidly and soon expects to get into harness again.

The Reading Stove Works, Reading, Pa., with Chicago office 153-159 S. Jefferson street, send us a decidedly unique circular. The outside shows an envelope in the shape of a regulation U. S. mail bag. On the inside is a pretty liberty stamp and a fine cut of the Mystic Sunshine range, which, in addition to its graceful shape, and ornamental design, has an artistic satin finish. It is made with reservoir and loose hearth. The ornamentation is magnificently finished.

The Born Steel Range Co., Cleveland, O., send us a circular which calls attention to some of the strong points of the Born steel range. These ranges have patent removable oven bottoms, balanced oven doors, double steel plate bodies, cast back flues, heavy cast iron tops, combination feed doors, reversible duplex grate, adjustable flue slides, cased asbestos flue bottoms, paneled patent closet doors, planished iron end panels and encased reservoir heated by patent process.

The Eclipse Stove Co., Mansfield, O., send us a copy of Supplement A to their catalogue No. 18, showing their newest and latest goods. These include the Triumph Eclipse steel range, new D series; Astral Eclipse, new steel cook; "Special" line of cast cooks and ranges; Lustrous Eclipse, new hard coal base burner; Wonder Eclipse, circulator and radiator; Prize Eclipse,

with shaking grate, drop ash pit and ash pan; Herald Eclipse, 1901 style; Sun Eclipse, Oak Eclipse, Triumph Eclipse, and a new steel laundry range.

Cleveland will extend a glorious ringing welcome to the G. A. R., who will hold their 35th national encampment in that pretty city Sept. 9-14. The Cleveland Co-operative Stove Co. are extending a cordial invitation to the veterans to visit their salesroom at Baden and Central avenues, that city. This firm have 110 different styles of stoves and ranges on their floor and will be prepared to deal out allopathic doses of genuine Cleveland hospitality to the visiting ex-soldiers.

The Palermo Mica Co., 115 Beekman street, New York, send us their latest standard price list of mica, in sizes ranging from 1½x3 to 8x10. This firm deliver mica to any part of the United States free of transportation charges. Their assorted mica, put up expressly for the retail trade, come in one pound, two pound and three pound packages. The pound packages contains ¼ pound each of 4½x6, 2¾x3¼, 2½x3 and 2¼x4½ sizes. The two pound package contains ¼ pound of eight different sizes, and the three pound package contains ¼ pound of 12 different sizes.

The M & D Range Co., 96-100 Lake street, Chicago, send us a circular showing some of their popular steel ranges. These include the M & D combination range, for coal and wood or gas, with ventilated roll curtain top if desired; Columbia M & D steel range in four sizes, heavy and highly ornamented with portable white enameled reservoir; American M & D range in four sizes, with white enameled reservoir, for family use; M & D range, in four sizes, for family use; Double Oven ranges, in four size, and American M & D steel range with iron framed ovens, poised oven doors and Dockash, duplex or wood grates—all slide out.

The Imperial Gas Lamp Co., 132-134 Lake street, Chicago, send us a circular describing their Imperial lighting system for lighting stores, churches, halls, factories, streets, parks, etc. The Imperial burner has a generating chamber which is a quarter of an inch in diameter. The needle point regulates the supply of gas perfectly, and also cleans the small orifice of gas passage. The reservoir for storing gasolene holds five gallons, and is made of galvanized iron, riveted and tested to 300 pounds pressure, complete with gauge, etc. Their No. 141, 1,000 candle power, is a handsome brass fixture, elegant design, rich finish, suitable for stores, public buildings, churches, halls, etc. The font holds three quarts.

The Imperial gas lamp burner is covered by U. S. patents, and is, it is claimed, the only burner where the generating tube is in the center of the flame. When the cut off is closed the light is extinguished instantly.

Mr. Henry Gleason, with his better half, son and daughter-in-law, returned from a European trip on the Etruria, Aug. 24, and Mr. Gleason is again on deck at the old stand, 258 Broadway, New York. During Mr. Gleason's absence in Europe we have anxiously scanned the cable news and found no mention of his finishing well towards the top in the Paris-Berlin automobile race. Neither did we read of his ascent of Mount Blanc, his swapping of stories with Willie Hohenzollern, his advising of Loubet in the Turkish complications, or giving tips to Edward VII on horse racing. The omission of these items is not due, we are convinced, to the incompetency of the foreign representatives of our progressive dailies, so much as it is to that innate horror of notoriety which is the dominant factor in Mr. Gleason's life.

The Schneider & Trenkamp Co., Cleveland, O., send us one of their 1902 catalogues of Reliable oil heaters. A feature of excellence in this oil heater is found in the wicking device. The wicks can be taken out and replaced in one minute. The burners and founts are simply and perfectly made. They are of the very latest pattern and are made of the very best material. All parts of the Reliable oil heater No. 553 are stamped from extra heavy steel, making them very light and quick radiators of heat and unbreakable. This heater is furnished in two styles of finish, aluminum and nickel plated. The aluminum finished heater has all the rings, dome and mica frame aluminum finish and legs nickel plated. The nickel plated heater has legs, base, ring, center ring, hinges and catch nickel plated, mica frame, top ring and dome aluminum finish. The Reliable oil heater Nos. 555 and 666 are made with a self-mounting hinge, easily taken apart, making it very convenient for moving from one room to another. Their No. 777 is their largest size oil heater. It is 40 inches in extreme height. One of these catalogues will be forwarded the trade on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

KOOTENAI SNAP SHOTS.

Kootenai or Klondike, Nome or Ballarat, California or Transvaal—the history of all gold fields is the same. At first there is an overflow of rough and ready adventurers, with the most buoyant of hopes and a minimum of capital. Some of these strike it rich—the majority suffer pioneer hardships for awhile and return to civilization. After this effervescence following the uncorking of earth's golden treasures dies away, a solid mining industry, run by business men with improved machinery on business lines remains. Twenty years ago the Kootenai was the prototype of the embryo Dawson City. Today it has, to carry out our simile, "simmered down" to a prosperous mining community. Datus F. Brown, who is associated with the Standard Lighting Co., Cleveland, O., chose these diggings for his last vacation, and took his camera along. The results of his trip are embodied in a delightful little book entitled "An Office Man's Vacation," which shows a number of quaint and interesting pictures of this new and but little known country. On page 31 we find a picture which it was certainly a big feat to take. The subject matter of the book is in an easy colloquial style with interesting descriptions of gold mining, or such bits of nature portrayal as this, "the most beautiful cascades, which seemed to drop down from the skies, their snowy, foamy waters marking their courses from step to step down the steep mountain sides until they were lost to sight in the deep foliage which covers the larger streams in the valley far below."

STEEL RANGE PEDDLERS IN ILLINOIS.

Several correspondents from Barry, Ill., and vicinity advise us that steel range peddlers are operating in their vicinity, and enclose us clippings from local papers, showing what steps they are taking to fight these peddlers. One correspondent feelingly adds that he for one is very sorry that the agitation for an anti-steel range peddler law, recently started in our columns, was not begun a year ago. From the New Canton, Ill., Advance of Aug. 24 we clip this local:

"Notices were scattered broadcast through this vicinity Wednesday warning the farmers against steel range swindlers who are now working in the county. Read the notices and note the mode of procedure. When one of them come to your house show him the gate and the dog."

On the same page we find a 6½ inch double column advertisement of Wike & Davis, dealers in hardware, stoves and tinware in Barry, Ill. This advertisement calls attention to the fact that they handle the Peoria-Lexington and Superior steel ranges, and "will give a satisfactory guarantee in all cases." On the front page we note a 11 inch double column advertisement of H. Koeller, who advertises a leading steel range at $24.50, and offers 5 per cent off for the next thirty days on his entire line of stoves and ranges.

The point we would make in thus going into detail is that these two local stove firms are showing themselves to be live concerns in fighting these peddlers by liberal advertising. Furthermore, it seems to us that the New Canton Advance should give them more aid than the little, skimpy local given above. Why does it not reproduce the circular it mentions, and, instead of enlisting sympathy for the peddlers by calling them swindlers and urging farmers to set their dogs on them. Why does it not point out a few good strong reasons why farmers should not patronize these people? The two advertisements of the local hardware men—who are tax-payers, which the peddlers are not—give in black and white two strong arguments. H. Koeller offers his steel range at $24.50, which is considerably cheaper than the peddlers' range, we will guarantee. Wike & Davis state "they will give a satisfactory guarantee in all cases." Now a "guarantee" by a dealer located in Barry, Ill., is worth a great deal more to people residing within a radius of five miles of that place than a guarantee by a gang of commercial nomads, whom one cannot place their finger upon when it is necessary to ask them "to make good" their aforesaid guarantee.

A marked contrast to this brief notice is found in the Barry (Ill.) Adage, of Aug. 22, which gives the right kind of protection to its local merchants by giving the following expose of these gentry and their methods of doing business. So thoroughly does this cover the ground that it is good ammunition for dealers in all sections of the country to use when their territory is invaded:

BEWARE OF RANGE PEDDLERS.

By reports sent out from some of our neighboring counties it is learned that a smooth lot of peddlers have been traveling through them selling ranges. The price they charge is at least one-third more than is asked by home merchants for a range just as good, but their plausible arguments and the fact that they offer to allow the buyer to pay for it when convenient if the range proves satisfactory seems to catch the unwary.

It is said that these range peddlers have been quite successful in certain neighborhoods, and now the people who were duped are sending up a big howl.

It is said that a sleek-looking agent calls first and offers to place a range in the kitchen. He claims that it is made of steel and is the best manufactured. If you have about $65 about the house you can avail yourself of the opportunity of keeping it, and if you haven't the cash you may take the range on approval, the husband and wife signing what the agent says is a receipt for the stove left at the house. It is said that these receipts generally turn out to be promisory notes.

Another paper they are asked to sign is a contract containing various stipulations. The company agrees to keep the stoves in repair for a certain number of years, but as no agencies are established no repairs can be secured. It appears that on the back of the contract is a "special notice" that generally escapes the buyers' attention, which expressly stipulates that no old stoves are taken in part payment, although the smooth agent usually promises to take the old stove at $20, board out $10 of the price and allow anywhere from $5 to $10 for carting, which would reduce the amount of cash to be paid very materially. Sometimes the agent writes these special agreements on the contract, but in a place where they can be torn off without destroying any portion of the contract, and when some collector or bank calls for the payment of the promisory note the special agreement will not be found on the contract.

The Adage publishes the above information obtained to post its readers on the manner in which the steel range peddlers operate and to caution them to be exceedingly careful in dealing with them. In fact, we honestly believe that they make a great mistake in dealing with them at all. We understand that they charge in the neighborhood of $70 for their ranges, when just as good a stove can be bought from a home merchant for $40. Besides the home merchant can always be compelled to make good his promises, while the agent can never be found after he has sold the range and has received his pay in cash or a promisory note.

If any of these agents call on you, don't sign any kind of a paper without first consulting a home attorney, for it will be cheaper to consult him before doing so than it will be after you have signed the note.

If you are caught by one of these smooth peddlers after reading the above warning it will be your own fault. Remember that an agent of that kind is always selected by the company who employs him because he has a glib tongue, and his promises are seldom made good by his employers. All that is expected of him is to sell you the article and hand over the cash or promisory note. The tactics adopted by him to accomplish the desired result does not concern his employers.

When one looks at the advertising columns of the Barry Adage and sees the announcement of Wike & Davis, local hardware dealers, in which they offer steel ranges at $35 to $40, and "give a satisfactory guarantee on these goods, and expect to be found at the old stand at any time in the future to make said guarantee good," and that of J. B. Watson, another hardware dealer, who advertises steel ranges at $40, and states, "we are here to stay and to back up what we tell you about them;" it certainly seems incomprehensible that anyone in that vicinity should pay a traveling peddler $73 for a steel range whose only guarantee is that of a strange salesman, who is like the Irishman'sflea, and will not be there when one puts his finger on him.

The Hardware Record.

Arkansas Retail Hardware Dealers' Association.
Pres., John M. Pitman, Prescott.
1st Vice-Pres., J. F. Maxey, Ozark.
2d Vice-Pres., T. B. Stewart, Newport.
Secy-Treas., J. A. Plummer, Marianna.
Executive Com.: H. Williams, Hot Springs, J. H. Boicourt, Little Rock, J. W. Lee, Fordyce.

Chicago Retail Hardware Dealers' Association.
Pres., D. McLaughlin.
Vice-Pres., H. E. Gnadt.
Sec., G. R. Lott.
Collector, John Hora.
Treas., J. L. Smith.

Hardware Merchants' and Manufacturers' Association of Philadelphia.
Pres., Hugh McCaffrey.
Vice-Pres., Wm. C. Peters.
Sec.-Treas., T. James Fernley.
Directors, William W. Supplee, Samuel Disston, John H. Griffith, James H. Ritter, William C. Peters, Thomas Devlin, Fayette R. Plumb, Hugh McCaffrey and T. James Fernley.

Illinois Retail Hardware Dealers' Association.
Pres., H. G. Cormick, Centralia.
Vice-Pres., Wm. Bittel, Peoria.
Sec., G. R. Lott, Chicago.
Treas., F. F. Porter, Chicago.
Ex. Com., Z T. Miller, Bloomington; W. T. Gormley, Chicago; H. N. Murphy, Galesburg; C. Mauer, East St. Louis; C. Williams, Streator; L. Babst, Kankakee.

Indiana Retail Hardware Dealers' Association.
Pres., W. P. Lewis, New Albany.
Vice-Pres., Jas. L. Hutton, Portland.
Sec. and Treas., M. L. Corey, Argos.
Members Ex. Com., I. A. Sibley, South Bend; E. M. Bush, Evansville; W. H. Weed, Vincennes.

Indian Territory Retail Hardware Association.
Pres., Geo. W. Mowbray, Tulsa.
1st Vice-Pres., J. G. Smith, Canadian.
2d Vice-Pres., Fred Parkinson, Wagoner.
Sec., Dick Miller, Poteau.
Treas., Sam R. Frazee, Vinita.

Iowa Retail Hardware Dealers' Association.
Pres., W. A. McIntire, Ottumwa.
Vice-Pres., E. G. Penrose, Tama.
Ex. Com., A. C. Heyman, Miles; L. Lindenberg, Dubuque; F. S. Narum, Waukon; E. G. Penrose, Tama; W. A. McIntire, Ottumwa; L. H. Kurtz, Des Moines; H. A. Cole, Council Bluffs; Harry Vincent, Ft. Dodge; W. H. Miller, Cherokee; M. W. Keating, Afton; Jacob Seither, Keokuk.

Kansas Hardware Dealers' Ass'n.
Pres., Geo. F. Andersen, St. Marys.
Vice-Pres., Oscar Rohhr, Topeka.
Sec., J. A. Cole, Topeka.
Ex. Com., James H. Hamilton, Arkansas City; E. I. King, Logan; T. H. Kiniry, Beloit; J. M. Walters; Robinson; F. W. Bartlett, Kansas City.

Kentucky Retail Hardware and Stove Dealers' Association.
Pres., Geo. Dehler, Louisville.
1st V.-P., J. S. Ogden, Ashland.
2nd V.-P., Chas. D. Winn, Paris.
Sec., Paul Wagner, Louisville.
Asst. Sec., Wm. Dehler, Louisville.
Treas., Henry Heick, Louisville.

Michigan Hardware Association.
Pres. H. C. Minnie, Eaton Rapids.
Vice-Pres., Geo. W. Bruske, Saginaw.
Sec., Fred H. Cozzens, Detroit.
Treas., Henry C. Weber, Detroit.
Ex. Com., Samuel Winchester, Jackson; Fred S. Cook, Fowlerville; C. E. Pipp, Ostego; A. Harshaw, Delray; A. J. Scott, Marion City; James J. Potter, Alpena; Jno. W. Jochin, Ishpeming; Robt. G. Chandler, Coldwater; John Popp, Saginaw, F. S. Carlton, Calumet.

Minnesota Retail Hardware Association.
Pres., W. H. Tomlinson, LeSueur.
Vice-Pres., H. S. Cleveland, Minneapolis.
Sec., T. McCracken, Minneapolis.
Treas., G. M. Evanson, St. Peter.
Ex. Com., F. H Hunt, Red Lake Falls; B. J. Kernkamp, St. Paul; Julius Schmidt, Wabasha; W. H. Tomlinson, LeSueur; A. C. Hatch, Battle Lake; Jos. Mason, St. Peter; Chas. F. Ladner, St. Cloud; S. R. Nelson, Owatonna; E. H. Loyhed, Faribault.

Missouri Retail Stove and Hardware Dealers' Association.
Pres., B. F. Naylor, Marshall.
V.-P., Geo. R. Plowman, St. Louis.
Sec., F. N. Neudorff, St. Joseph.
Ex. Com., R. L. Hixon, Hannibal; F. A. Kannsteiner, St. Louis; J. W. Poland, Carrollton; W. A. Wingert, Kansas City.
Advisory Board, P. E. Harney Joplin; E. Stuelzing, Kansas City; J. M. Kenyon, Maitland; W. T. Shoop, Richmond; G. A. Pauly, St. Louis.

National Hardware Association.
Pres., R. W. Shapleigh, St. Louis.
Second Vice-Pres., Brace Hayden San Francisco.
Sec-Treas., T. James Fernley, Philadelphia.
Ex. Com., W. K. Belknap, Louisville; John C. Koch, Milwaukee; R. A. Kirk, St. Paul; Samuel A. Bigelow Boston; P. E. Strauss, Boston; J. D. Moore, Birmingham.

National Retail Hardware Dealers' Association.
Pres., W. P. Lewis, New Albany, Ind.
Vice-Pres., Geo. Hubbard, Flint, Mich.
Sec., M. L. Corey, Argus, Ind.
Treas., H. T. Helgeson, Milton N. D.
Ex. Com. Z. T. Miller, Bloomington, Ill.; Fred Neudorff, St. Joseph, Mo; I. A Sibley, South Bend Ind.; H. A. Cole, Council Bluffs, Ia.; H. G. Cormick, Centralia, Ill.

North Dakota Retail Hardware Dealers' Association.
Pres., H. T. Helgesen, Milton.
Vice-Pres., H. N. Joy, Hamilton.
Treas., W. H. Pinkerton, Lakota.
Sec., C. N. Barnes, Grand Forks.
Ex. Com., H. Harrington, Fargo; W. W. Jamieson, Wahpeton; H. F. Strehlow, Casselton; I. L. Newgard, Grafton; H B. Allen, Jamestown; H. A. Mae, Church's Ferry.

Ohio Hardware Association.
Pres., O. M. Scott, Marysville.
Vice-Pres., W. P. Bogardus, Mt. Vernon.
Cor. Sec., Geo. Gray, Coshocton.
Financial Sec., Will C. Jones, Columbus.
Treas., H. G. Woodward, Sidney.
Ex. Com., Geo. B Meyer, Cincinnati; Geo. V. Guyton, Ada; H. F. Rahe, Cleveland; J. Rohrbacher Akron; A. H. Strome, Warsaw; Frank Winters, Lancaster; James B. Carson, Hamilton; R. Brown, Washton Court House.

Philadelphia Retail Hardware Dealers' Association.
Pres., Frank Schmidt.
Vice-Pres., Julius M. Aff.
Sec., T. B. Hendricksen.
Treas. Edward H. Shannon.
Trustees, Wm. E. Andrews, Lewis C. Claditg and Aaron I. Sanson.

St Louis Stove Dealers' Ass'n.
Pres., F. A. Kansteiner.
First Vice-Pres., Aug. Steinmeyer.
Second Vice Pres., Aug Gruendler.
Sec., A. F. Geschwindner.
Treas., L. J. Boehl.

Southern Hardware Jobbers' Association.
Pres., J. D. Moore, Birmingham, Ala.
1st Vice-Pres., F. A. Heitman, Houston, Tex.
2d Vice-Pres., Bruce Keener, Knoxville, Tenn.
Sec., C. B. Carter, Knoxville, Tenn.
Ex. Com., W. M. Crumley, Atlanta, Ga.; O. B. Barker, Lynchburg, Va.; Chas. H. Irelan d, Greensboro, N. C.; B. F. Eshleman, New Orleans.

Texas Hardware Jobbers' Association.
Pres., F. A. Heitman, Houston.
1st Vice-Pres., J. C. Bering, Houston.
2d Vice-Pres., Ed. Strauss, Waco
Sec.-Treas., Robert Eikel, Houston.
Ex. Com., Jas. Moroney, Dallas; R. F. Bell, Weatherford; W. L. Sanford, Sherman; A. E. Goeth, Austin.

Wisconsin Retail Hardware Dealers' Association.
Pres., John Hessel, Antigo.
Vice-Pres., Otto Schlafer, Appleton
Sec., C. A. Peck, Berlin.
Treas., George Leverenz, New Holstein.
Ex. Com., Henry Droegkamp, Milwaukee; Arthur Heins, Tigerton; E. H. Ramm, New London; J. Wilkie, Fond du Lac.

Davidson, Bagley & Co. are a new Memphis, Tenn., wholesale hardware house.

The Wabash Screen Door Co., Rhinelander, Wis., have increased their capital stock to $150,000.

The Des Moines Scale & Mfg. Co., Des Moines, Ia., are erecting a factory three stories high and 60x132 feet in dimensions.

J. & S. Scharf, Monroe, Ia., have put in a stock of hardware and will be pleased to receive catalogues from jobbers and manufacturers.

The plow manufacturers were in session at the Auditorium Hotel, Chicago, the past week, and decided to advance the price of plows 10 per cent and all plow repairs 15 per cent for the ensuing year.

The Joseph Dixon Crucible Co., Jersey City, N. J., send us a little card showing the Louisville bridge of the Kentucky & Indiana Bridge & Railroad Co., which is protected with Dixon's silica-graphite paint.

The Janesville Hay Tool Co., Janesville, Wis., manufacturers of hay tools, hardware specialties, etc., have moved their factory from Janesville, Ill., to Sycamore, Ill., and have established their Chicago office at 122 Lake street.

Elias Hollander, a hardware dealer at 3806 Third avenue, New York, has brought charges against patrolman E. O'Neill, of that city, of trying to "shake him down" for selling some plates to a woman on Aug. 11, and thus violating the strict New York City Sunday laws.

W. P. Lewis, New Albany, Ind., president of the National Retail Hardware Dealers' Association, has just returned from a trip to California. In a favor, dated Aug. 27, he expresses his regret at his inability to have been present at the recent meeting of the Michigan Hardware Association.

John Topping, a salesman employed by Topping & Co., hardware, 92 Chambers street, New York, died on Aug. 23 by plunging fifty feet to his death through the air shaft leading from his bedroom window. Mr. Topping was in his fifty-second year and had been a recent sufferer from insomnia.

The John Pritzlaff Hardware Co., Milwaukee, Wis., advise us under cover of Aug. 24 that in spite of the fact that there is quite a famine of bright coke tins, they have a well assorted stock on hand. Dealers desiring some of these plates should get their orders in at once as this stock is moving fast.

The Broadway Bicycle & Sundry Mfg. Co., 7 and 9 Warren street, New York, advise us that they are desirous of receiving manufacturers' catalogues and discount sheets, as they intend to add a department for strictly jobbing of light hardware, such as builders' hardware, shelf goods, kitchen utensils, etc.

Henry Disston & Sons, Inc., Philadelphia, Pa., have purchased the saw department of The American Saw Co., Trenton, N. J., and intend to manufacture only the inserted tooth circular saws and points formerly made by The American Saw Co. They have also pur-

chased the Baldridge & Hogan plant at Cincinnati, O., and have taken this in with their Cincinnati branch.

The National Sweeper Co., Marion, Ind., sends us a handsome poster, 14 inches wide and 21½ inches high, showing a handsome cut of the Marion carpet sweeper. This card is designed for the use of the trade, and underneath this cut is the inscription, "We sell them." This pretty piece of colortype work should be of material assistance to dealers in handling these goods.

The Southington Cutlery Co., Southington, Conn., send us a circular describing their Crescent safety razors. The blade is forged from the finest English razor steel and is tempered by an improved process. The grinding and finishing are done by the highest skilled labor. The blade is easily adjusted by a quarter turn of the handle, which also holds it in its proper place.

The Geo. M. Scott-Strevell Hardware Co., Salt Lake City, Utah, send us a booklet entitled, "Money-Saving Stoves and Ranges," showing their Good Luck steel ranges, Surprise Eclipse and Triumph Eclipse steel ranges, the Pacific steel range, Moore's steel Gem, Good Luck steel cook, Moore's heater, Round Oak, Perfect Eclipse, etc. The back page of this booklet contains the following excellent advice:

The man who whispers down a well
About the goods he has to sell,
Won't reap the golden gleaming dollars

The Tower Mfg. Co., Cincinnati, O., manufacturers of all kinds of tacks, staples, rivets, nails, etc., have lately placed in the market two new brands of carpet-layers' tacks. One of these is a high quality of blued steel tacks, known as "Excelsior," the other is a finely polished tack, of the very best grade made, and is labeled "Pan-American." These are put up in fancy cartons and are guaranteed full count, 500 tacks to the package. They have already met a favorable reception from the wholesale trade to whom they have been shown, and this firm expect a heavy business on them later in the season.

The Stanley Rule & Level Co., New Britain, Conn., are manufacturers of boxwood and ivory rules, plumbs and levels, try squares, bevels, gauges, mallets, iron and wood adjustable planes, spoke shaves, screw drivers, awl hafts, handles, etc. Among their tools are Winterbottom's combined try and miter square, which can be used with equal convenience as a try square or a miter square. By simply changing the position of the handle and bringing the mitered face at the top of the handle against one edge of the work in hand, a perfect miter or angle of 45 degrees can be struck from either edge of the blade.

The Enterprise Mfg. Co. of Pennsylvania, Philadelphia, Pa., make a large line of patented hardware specialities. Among the recent additions to their line of goods are their meat and food chopper No. 1, motor chopper No. 822, motor rapid grinding and pulverizing mill No. 986, power rapid grinding and pulverizing mill No. 916, bacon and bread slicer No. 73 and power raisin seeder No. 99. This firm's line includes barn door bolts, fruit augers, meat choppers, slaw cutters, measuring faucets, molasses gates, sad iron, raisin seeders, fruit presses, lawn mowers, cork pullers, ice shredders, mole traps, cherry stoners, lawn sprinklers, etc.

Bommer Bros., 257-271 Classon avenue, Brooklyn, N. Y., are manufacturers of the Bommer ball-bearing spring hinge. As the tension of these hinges is adjustable only four sizes are necessary to cover the entire range of doors. The ball-bearing is raised on a center post nearly to the floor level and gives a well-balanced, easy movement. As it is covered by a hollow spindle the ball-bearing is thoroughly protected from water, dirt and grit. The top bearing plate is broad, so that the screws get a good hold in the flooring. The cylindrical shape of this hinge makes it easy to let into the floor and brings the center of the pivot as near as possible to the casing.

The Brown-Hurley Hardware Co., have been incorporated at Des Moines, Ia., with a capital stock of $200,000, and are successors to the wholesale hardware and cutlery business of J. D. Seeberger. W. S. Brown is president of this company, E. W. Brown is vice president, T. E. Hurley is secretary, F. J. Camp is assistant secretary and Homer A. Miller is treasurer. The stockholders in this company are James G. Berryhill, W. O. Finkbine, W. S. Brown, T. E. Hurley, H. A. Miller, E. W. Brown, F. J. Camp, John W. Howell, C. C. Prouty, George F. Henry, W. S. Lacy, D. Close and H. West. T. E. Hurley, F. J. Camp, E. W. Brown and W. S. Lacy, who are with the new concern, were identified with the business of J. D. Seeberger for from 15 to 20 years.

THE MIRACLES OF THE MICROPHONE.

Few birds have the sensitive ear of the pheasant. It has been demonstrated that these birds heard a small cannon fired at a distance of 40 miles, and inaudible to human ears 10 miles away. But the microphone can discount any pheasant that ever breathed, as it is capable of transmitting the sound made by the footfall of a fly upon the floor. The Ericsson Telephone Co, 296 Broadway, New York City, are in the microphone business, and state, *re* the recent robbery of the vault of the Selby Smelting Co., Crockett, Cal., that had this vault been equipped with this microphone attachment, the drilling of the floor could have easily been detected by the watchman, who should listen at the receiver at certain intervals through the night, the act being recorded on a dial. Any slight sound made on any part of the metal would be faithfully recorded, and even intensified, by the induction coil. The Ericsson transmitter is admirably adapted for this purpose on account of its extreme sensitiveness and immunity from packing. Many transmitters will work when used frequently, as this serves to agitate the carbon granules, while but very few will work after having stood a long time in absolute stillness without first being shaken slightly, it is claimed.

Further information concerning this apparatus or anything else in the telephone line can be obtained by writing this firm. When writing them kindly add: "Saw it in THE AMERICAN ARTISAN."

HANDY BOOK FOR TRAP SHOOTERS AND SPORTSMEN.

The Peters Cartridge Co., jointly with the King Powder Co., both of Cincinnati, issue the "Handy Book for Trap Shooters and Sportsmen," the twelfth edition of which is now at hand. This books gives short accounts of The King Powder Co. and The Peters Cartridge Co. and their processes and products, all of which is told in entertaining style. The synopses of the game laws, giving all the open seasons in the different states and territories of the United States and the British possessions, are complete and up to date. Both the Interstate Association rules and the American Trap Shooting Association for inanimate targets and live birds are given, also system of dividing money, hints to beginners, rifle and pistol rules, information as to how to organize and conduct tournaments and other interesting matter. On the last inside page is reproduced in colors one of Dwight Huntington's magnificient shooting scenes, "In the Beech Woods," and facing this is the diagram showing sizes of the Peters shot, number of pellets per ounce, etc., of Peters shot.

This booklet from cover to cover is a thing of beauty and interest to all sportsmen, to whom it will be sent free upon application from the trade. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

A SILVERWARE TRADEMARK.

It is 55 years since Simeon Rogers, Asa Rogers and William Rogers began the business of plating spoons and forks in Hartford, Conn. The work these three original Rogers Bros. did was of the highest grade, and

Trade-Mark:

S ROGERS C

Trade Mark.

the longer people used their silverware the greater store they set by the word "Rogers," and hence this name came to have a special significance as applied to silverware.

The firm of Simeon L. & George A. Rogers Co.,

Trade-Mark:

S ROGERS BROS. C

Trade Mark.

Hartford, Conn., is composed of the sons of Simeon, one of the original Rogers Bros., and they have had marked success in fighting the silverware trust, which has been forced to resort to all sorts of desperate tactics to belittle the hold of this firm on the public. However, the Simeon L. & George H. Rogers Co., have gone right on selling people goods stamped with the trade mark shown herewith.

WHY DO NOT PENNSYLVANIA HARDWARE DEALERS ORGANIZE.

TO THE AMERICAN ARTISAN.

If there is a hardware dealers' protective association in the state of Pennsylvania we would like to know where it is. If none here, will join the next nearest one to us. By all means let us unite and fight, by pen and voice and co-operation, and we will soon remedy many of the evils the trade has to contend with. Let us fight the manufacturer who sells to department stores. One way to do it is, let us buy as inferior stove as they handle and put the price down on this cheap grade. Let there be a purchasing agency established. Let them buy by the carload lots and have each one therein shipped direct to each dealer—let the number be one or a dozen.

We drove the range peddler out of this section. We got after them hot. One big jobber said of us, "We were the only dealer in the country had nerve to go after them," and we did it, too!

FREDONIA HARDWARE CO.

Fredonia, Pa., Aug. 27, 1901.

ENTITLED TO COURTESY OF A REPLY.

TO THE AMERICAN ARTISAN.

We wish to say that we very much appreciate the fact that you so generously give the use of your columns without charge to those seeking help and situations. Having had occasion to use your columns at different times, and being favored with more or less answers to our advertisements, we have always made it a point to reply to every application, but we cannot say as much for those advertising for situations. We have corresponded with the party when his advertisement first came out, and he has not so much as dropped us a postal card. An applicant's inattention to letters of inquiry very often deprives the merchant from employing an applicant who might apply in person, and we believe that the attention of both merchants and applicants should be called to the fact that they should reply to all inquiries. We certainly have been very much annoyed through inattention to our letters from applicants in your valuable paper.

"DEALER."

——, Wis., Aug. 27, 1901.

BUSINESS CHANGES.

NEW FIRMS.

Richmond, Mich.—Mr. Horning.
Portland, Ore.—The Pier Hardware Co.
Juliaetta, Idaho.—N. B. Trout.
Searsboro, Iowa.—Moody & Son.
Des Moines, Iowa.—I. K. Wilson.
Badger, Iowa.—The Granger Co.
Houston, Tex.—The Ewing Saigling Hardware Co.

CHANGES.

Muskegon, Mich.—R. W. Christie succeeds J. E. Miller.

Pullman, Wash.—A half interest in store of E. W. McCann has been purchased by William D. Outman.

Guernsey, Iowa.—Mr. Merrill succeeds W. A. Negley.

Blaine, Wash.—Harry Litton succeeds V. E. Staeubli.

Pearl City, Ill.—John H. Knapp succeeds Kuhlmeyer Bros.

Searsboro, Iowa.—Harry Ritter succeeds R. F. Rivers.

MISCELLANEOUS.

Rantoul, Ill.—Williams Bros., fire.

Piconning, Mich.—Albert Grimshaw, fire.

Fairland, I. T.—Charles Jones is erecting a new building in which he will open a store with a stock of hardware, implements, harness, etc.

Advertising Department.

Our readers are invited to send in copies of their advertisements in the local press for criticism. All communications should be addressed to the "Advertising Department" of THE AMERICAN ARTISAN.

The Lalance & Grosjean Mfg. Co. are generous users of space in large dailies to impress on the general public the superiority of Agate Nickel Steel ware, of

which they make 1,520 kinds. General advertising of this character cannot but prove helpful to dealers handling these goods.

H. P. Townley, Terre Haute, Ind., who has issued

They can't make much money out of this furnace. It doesn't burn enough coal to suit them. They have been used to the old kind, consuming almost a ton of coal a day. Seriously, this furnace is the most economical furnace we know anything about. We use one ourselves, so we know what we're talking about. It will save its cost in coal in a short time. Drop in and look at it.

several series of advertisements designed for retail hardware men, bicycle salesmen, dealers handling steel ranges, etc., and has issued a series of fifty furnace, steam and hot water advertisements. These are written in a great variety of styles, and serve as good advertising copy for furnace dealers.

A couple of these advertisements are herewith reproduced, the idea being that the dealer should alter

Every time you fill the old furnace up with coal. Furnaces have improved since that one was bought—they are better for the money, prices are lower, and the economical side of the coal question has been looked after. Nowhere are these improvements to be seen better than in furnaces we can show you.

the copy by inserting, in place of the illustration, cut of the furnace he at present handles, its name and the signature of his firm. The two advertisements taken from this booklet present arguments that should create new business for the retailer.

The advertisement of Roberts & James, Lake Crys-

tal, Minn., tries to take in too extensive a field. Then, too, it has the fault of too many styles of type.

THE annual number of the St. Paul Trade Journal is fully equal to the high standard set by previous issues. It presents in forceful form the strength of St. Paul as a jobbing center.

IN Cleveland they are experimenting with an electric trolley street sweeper using a machine with an eight-foot central broom and also another extending as an arm, twelve feet to the side.

Heating and Ventilating.

John B. Synnestveldt, Emil F. Lindrooth and Rose B. Barden are the incorporators of the Home Steam Heating Co., Chicago, capitalized at $2,500, for manufacturing and dealing in steam heating apparatus.

The Central Station Heating Co., 110 E. Third street, Cincinnati, O., for whom Isaac D. Smead is general manager and constructing engineer, send us a circular explaining the benefits of their independent central heating stations, 100 to 1,000 capacity. This system utilizes the loss of heat in exhaust steam at large power stations for their hot water lines.

The Chas. Smith Co., 122 Lake street, Chicago, send us their latest catalogue of Hero furnaces and hot water specialties. Smith's Hero furnace is made of heavy cast iron, with deep ash pit, cup joints, and with reversible flue radiator. This furnace has solid bars. Each bar is looped to its place separately, making the replacement of any bar an easy matter.

The Independent Register Co., 145-158 Champlain street, Cleveland, O., send us a pretty little circular showing a couple of lads on a see-saw. This circular states that "The ups and downs of life are well illustrated by the variations in the prices of registers. In 1898 the prices were high. In 1899 they were still higher. In 1900 there was a slight falling off. In 1901 they are very low. We were the pioneer manufacturers in competition with the combination. Beginning in 1898, with a line of 18 sizes—(we now have 75, almost any size you ever use), some of our combination friends said we wouldn't be making registers very long. Yet, here we are—busier, bigger, better than ever. Must be we have the right goods, right prices and know and fill the requirements of register buyers. This isn't true of every register manufacturer—as perhaps your experience of the past few years has shown."

The Henry & Scheible Co., 10 Long street, Cleveland, O., send us a circular describing the Moncrief top return flue warm air furnace. A feature of these furnaces is found in the Moncrief duplex grate, which is simple and effective in operation. The fire pot is of heavy weight and nearly straight. It is made in two equal sections. As the lower part of the pot is more or less filled with ashes and the upper part with live fuel, the upper part expands to a greater extent than the lower one, and as the pot is made in two sections with a cup joint in the center it will not crack. The feed section, or lower radiator, rests upon the upper section of the fire pot. A large part of the air to be warmed passes almost directly over the center of the firt pot. The radiator is crowned with an all-cast top return flue, which compels the products of combustion to travel around both sides of the top before entering the smoke exit. The casings are double with a three-quarter inch space between the two, allowing for a circulation of air between the inner and outer sections.

ADDITIONS TO GILT EDGE PLANT.

A new building, constructed of brick, steel and glass, to cost in the vicinity of $100,000, will be erected by R. J. Schwab & Sons Co., Milwaukee, Wis., some time next year. The building will have a frontage of 364 feet and will be one of the largest buildings of its character in the country. This firm have lately purchased a strip of land 88x150, which lay between their present factory and a 44x150 foot vacant lot they have owned for some time, and the new purchase gives them a continuous strip of land with 364 feet frontage on Clinton street by 150 feet deep, and also the property on Reed street, 96x150 feet deep, which is directly back of the Clinton street property, making the entire plant one piece of property. They are at the present time engagd in putting up a temporary addition to their factory in order to keep up with their increased volume of business. They are also putting in improvements in the way of electric traveling cranes for the mounting room, improved wood-working machinery for the pattern department, and dies, presses, etc., for the purpose of manufacturing safety pipes and tin and galvanized iron furnace fittings by machinery.

ROYAL HEATERS.

The Hart & Crouse Co., Utica, N. Y., send us their latest catalogue of "Royal" steam and hot water heaters. These heaters are constructed throughout of the best grades of selected cast iron. They are sectional in form, each section being a complete and independent heater in itself. The sections are connected together by means of manifolds and screwed joints on the outside of the heater. In these heaters the fire surface is self-cleaning. The fire pot and ash pit are completely surrounded by water. The water leg extends to the floor line and each section forms its own section of the fire pot and ash pit. The outer surface of the sections is covered with asbestos cement. The grates used are an improved form of rocking grate, operated by an upright shaker in front of the heater. The grate bars are interchangeable. This heater is adapted to the burning of hard and soft coal, natural gas or wood. The feed door is large, giving ample firing facilities for all kinds of fuel.

The improved Royal safety sectional steam heater, middle size, is fitted with direct draft and return flue. The heater can be increased or reduced in size by adding or removing sections. Each section is 26 inches wide.

The improved middle size "Royal" hot water heater is sectional in form with all screwed joints. It has vertical circulation of water, horizontal fire travel and return flue.

The Royal circular sectional steam and hot water heaters have a large combustion chamber, ample flue surface, a down draft, screwed joints with manifolds on the outside of the heater, a deep fire pot, revolving hollow center grate bars, separate base with cast iron bottom, check draft attachment to smoke outlet with air inlet, and tongue and groove joint between sections. This firm are also jobbers of expansion tanks, radiator valves, floor plates, air valves, bronzing and liquid union elbows, ceiling plate, altitude gauges, etc. One of these catalogues will be forwarded the trade on application. When writing for same kindly add: "Saw it in THE AMERICAN ARTISAN."

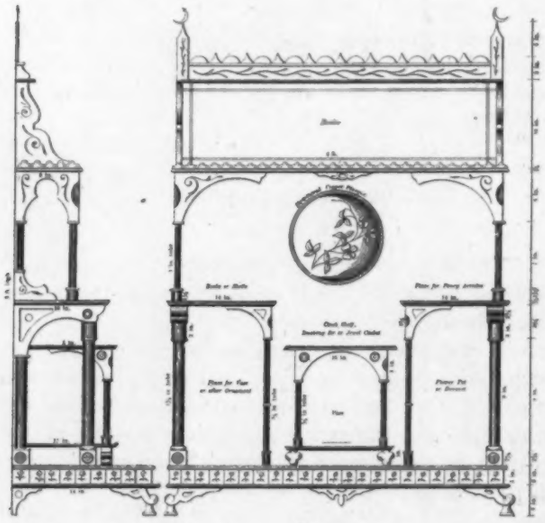
Tinshop.

BOOK SHELF AND CABINET.

TO THE AMERICAN ARTISAN.

Enclosed please find a design for a book shelf and cabinet for fancy articles such as vases, shells, stereopticon views and holder, and the hundred and one pieces of a bric-a-brac found in people's houses.

It may be made of almost any sheet metal, but preferably of brass and red copper. The shelves should be black walnut or white wood stained, with edges gilded or copper bronzed. (Bronzes may be obtained of dealers in artists' colors.) The finish on the upper



front edge of shelf is brass cut to shape and flanged on the side and screwed to the shelf. The bracket can be screwed to back with wood screws. The whole thing is to be soldered together, and where the solder cannot be cleaned off it is to be covered with the bronze. (Use a little turpentine to mix the bronze.) The back of the whole is of wood covered with gilt paper, or it may be paneled with hammered brass and copper. The tubing used for posts or pillars is brass either plain or bronze.

If desired the whole thing may be made of iron and bronzed with good effect. The upper panel, if not wanted for books, may be a beveled glass mirror, and would look very nicely. The tubes for posts might be of tin fluted or molded (before forming) with a scratch awl. The fluting should be made deep so the ridges will show well when formed up, with the seam on the back side. The back of the lower part may be made of wood and covered with plush, with hammered brass panels fastened thereon. "WORKMAN."

Chicago, Aug. 25, 1901.

HIP SKYLIGHT PATTERN WANTED.

TO THE AMERICAN ARTISAN.

Would some of the readers of your valuable paper be kind enough to furnish me the pattern for a hipped skylight? READER.

Duluth, Minn., Aug. 28, 1901.

DESIRES MORE DEFINITE INFORMATION.

If "O. H.," of Minnesota, will send another drawing, consisting of plan and elevation, to THE AMERICAN ARTISAN in reference to round to square or oblong furnace elbow, I think he will get the desired information. Last week's drawings were not definite enough.

WM. H. CUNNINGHAM.

Albany, N. Y., Aug. 27, 1901.

GALVANIZED IRON SKIFF.

TO THE AMERICAN ARTISAN.

I want some brother tinner to give me the pattern of a skiff made of galvanized iron for duck hunting.

PETER NICOLA.

Leavenworth, Kan., Aug. 26, 1901.

ADDITIONS TO LARGE PLANT.

The Lalance & Grosjean Mfg. Co. have completed some extensive additions to their Woodhaven, L. I., plant. These recent additions cover a space 400x200 feet in dimensions. On the Clinton place side the addition is 400 feet long and 160 feet wide, extending into three peaked roofs. This new building will be used as an enameling shop, to which the goods will be brought from the old factory across a bridge over Bigelow street. Next to this enameling shop on the Bigelow place side, is a finishing department, 400 feet long by 40 wide, which is really part of the enameling department, but is two stories higher. Extensive additions have also been made to their mechanical equipment, as they have added 21 new furnaces, which, with their 42 old muffles, gives them a magnificent capacity. These new muffles will be devoted entirely to the manufacture of enameled ware. This plant is certainly a colossus in the tinware field, as it covers more than 16 acres of ground and nearly five blocks of territory. The Harrisburg, Pa., plant of this company covers 12 acres of ground.

This large Long Island plant now employs 2,100 men, the old force of 1,300 having been augmented with the opening of their recent additions. Some idea of the immensity of this plant can be gathered from the fact that 130,000 pieces of ware are turned out every day. The Brooklyn Eagle, of Aug. 25, in writing up this factory, states that it is now the largest tinware manufactory in the world.

ARBITRATION REFUSED.

President Schwab, of the United States Steel Corporation, refused, on Aug. 29, to accept the plan of Simon Burns, president of the Knights of Labor, to arbitrate the strike. It is said that the unconditional return of the strikers to their places in the mills is the only basis on which the United States Steel Co. will arbitrate, and it is further stated by leading steel men that the strike will collapse in the course of a week.

The American Tin Plate Co. are advertising for non-union men, and every day idle mills are being started. The general consensus of opinion is that a

peace will very shortly be patched up and work will be resumed on practically the same basis that existed before the strike, with perhaps a few slight and unimportant modifications thereof.

PROMOTION FOR CHICAGO MAN.

Few firms have grown so rapidly in the last few years as the Lalance & Grosjean Mfg. Co., manufacturers of tin and enameled ware. This growth is amply shown by the recent addition of 800 men to the pay rolls of their Woodhaven, L. I., plant. This growth has necessitated an important addition to the *personnel* of the management of their New York office, and they have easily found the right man in promoting James D. Fleming, manager of their Chicago branch, to the position of assistant to Vice President A. J. Cordier. Mr. Fleming leaves for his new duties Sept. 1. The company are to be congratulated on having the right timber so readily accessible, and the fact that they have bestowed this deserved promotion to a high office on an efficient employe is certain to redound to the firm's advantage by increasing the already high *esprit de corps* of its force. Mr. Fleming has been with this firm for the past decade, and for the past six years has been manager of their Chicago branch.

The vacancy caused in the management of the Chicago office of this firm by this promotion will be filled by Palmer W. Holmes, one of the most popular traveling salesmen of this house. Mr. Holmes has been with this firm for five years, and has been covering territory west of Chicago.

NOTES AND QUERIES.

From F. V. Anderson, St. Francis, Wis.

Would like names of some good books on boat building?

Ans.—We would recommend the following books on boat building, for sale by Daniel Stern, 69 Dearborn street, Chicago: "Boat Building and Sailing," by A Nelson, 198 pages, 127 illustrations, $3.00; "Boat Sailing for Amateurs," by G. C. Davies, $2.00; "Boat Sailing," by D. Frazer, 142 pages, $1.00; "Boat Sailers' Manual," by E. F. Qualtrough, 255 pages, 113 illustrations, $2.00; "Canoe and Boat Building," by W. W. Stephens, 264 pages, 50 plates, $2.00; "Ships and Boats," by W. Bland, 75 cents.

STEEL HUNTING BOATS.

From David Meiss, Shakopee, Minn.

Where can I buy steel hunting boats?

Ans.—A. G. Cuthbert, 141 S. Water street, Chicago.

SOLDER FOR ALUMINUM.

From I. E. Dayton, Atlantic, Ia.

Would like a good solder for aluminum and flux for same?

Ans.—The composition of solders for aluminum is as follows: (1) Eighty parts zinc, 12 parts aluminum and 8 parts copper. (2) Eighty-eight parts zinc, 7 parts aluminum and 5 parts copper. (3) Ninety-four parts zinc, 4 parts aluminum and 2 parts copper. (4) Ninety-six parts zinc and 4 parts aluminum. (5) Eighty-five parts zinc, 9 parts aluminum and 6 parts copper. The flux for sheet aluminum is composed of resin, neutral chloride of zinc and grease. Another flux for use with a common soldering iron is either paraffin, stearin or vaseline.

ITEMS.

The foundations for the new plant of the Carnahan Stamping and Tin Can Co., Canton, O., have been completed.

A press dispatch from Steubenville, O., states that Pittsburg capitalists will build an independent tin plate plant in that city.

It is said that it is the policy of the United States Steel Co. to build plate mills on the land it has acquired adjacent to its tin plate mills at New Castle, Pa., and Martin's Ferry, O.

Mill No. 1 of the Aetna-Standard plant of the American Tin Plate Co., at Wheeling, W. Va., has been dismantled and is being shipped to Vandergrift, Pa. This is in line with the policy of the United States Steel Corporation in consolidating their plants.

The N. & G. Taylor Co., Philadelphia, are soliciting orders for September, October and November shipments on I C 20x28 ternes, all weights, I C 20x28 coke tins, full weight, 200 lbs., 190 lbs., 180 lbs. and 160 lbs., galvanized sheet iron, black sheet iron, solder, wire, zinc.

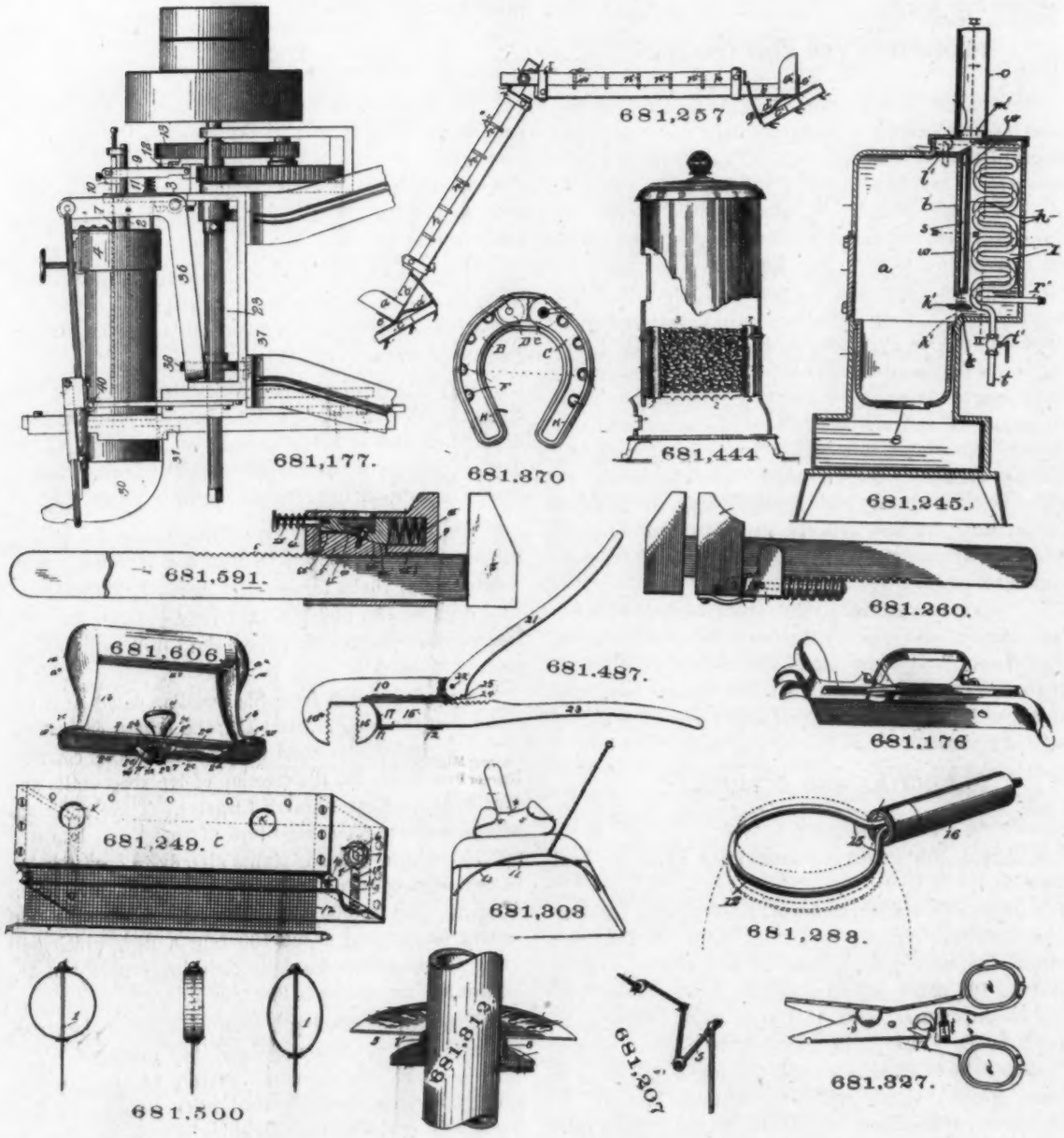
A press dispatch from Sharon, Pa., dated Aug. 26, states that the Sharon Steel Co., the largest competitor of the United States Steel Corporation in this country, has let contracts for the erection of ten sheet mills and four additional open-hearth furnaces. These additions will necessitate an expenditure of something like $1,000,000, which, with the plants already in operation, or in course of construction, will represent an investment of more than $8,000,000. The new sheet mills will have a capacity of about 100 tons a day, which will bring the total average daily finishing capacity of the Sharon Co.'s works up to 900 tons a day.

The Illinois Roofing & Supply Co., 23 Lake street, Chicago, send us a copy of their 1901 catalogue. This firm are manufacturers and jobbers of steel roofing, corrugated iron, awnings, steel brick siding, rock-face stone, ceiling sheets, metallic shingles and shutters, embossed steel ceilings, eaves trough, hangers, conductor pipes, ridge capping, cornices, galvanized crestings, finials, window and door caps, skylights, tin plates and metals.

Part II of this catalogue shows a complete line of eaves trough, conductor pipe, eaves trough hangers, valleys, hooks, cast iron boots and shoes, ridge coverings, rain water cut-offs, ventilators, common black steel, galvanized steel, planished iron, sheet zinc, sheet copper, solder, stove bolts, rivets, fire pots, iron castings, registers, etc.

Part III shows cornices, urns, letters, gable ornaments, window and door caps, hip caps, galvanized iron crestings, artistic cresting blocks, ceilings, metallic cresting blocks and finials, ornamental galvanized ridgings, round ridge roll, finials, galvanized iron skylights, lanterns and tinners' tools and machines.

Patents.



681,177—Machine for making pipe elbows. Urbana D. Alexander, Canonsburg, Pa.

681,245—Heating stove and attachment. Alexander Muir, Cleveland, O.

681,257—Carpet stretcher. Andrew Parrott, Sumner, Ia.

681,370—Horseshoe. Robert W. Padden, Kansas City, Mo.

681,591—Wrench. Marshall D. Tillman, Wabash, Ind.

681,260—Wrench. Oliver E. Pontious, Wauseon, Ohio.

681,606—Smoothing iron handle. Augustus N. Allen, Scranton, Pa.

681,176—Husking peg. Riley Albach, Mount Gilead, O.

681,487—Wrench. John Quist, Mystic, Ia.

681,249—Window screen. Thomas J. Nevins, St. Louis, Mo.

681,303—Combined dust pan and broom holder. John V. Dille, Kansas City, Mo.

681,283—Wrench or holder. Jefferson W. Waynick, Chariton, Ia.

681,500—Picture hanging nail. William Edmundson, Denver, Col.

681,312—Combined pipe collar and flange. James H. Grozier, Hartford, Conn.

681,207—Transom lifter and lock. Jacob Foster, Altoona, Pa.

681,327—Scissors. Fredrich W. Klever Jr., Solingen, Germany.

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Canton Steel Roofing Co. 53
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Old Dominion Iron & Nail Works 51

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Burton. W. J. & Co. 52
Canton Steel Roofing Co. 53
Garry Iron & Steel Co. 52
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La Crosse Steel Roofing & Cor.Co. 53

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Burton, W. J. & Co. 52
La Crosse Steel Roof & Cor. Co. 53

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Smith & Hemenway Co. 49

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Smith & Hemenway Co. 49

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Atlas Bolt & Screw Co. 1
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Fanner Mfg. Co. 16

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National Sweeper Co. 50

Tacks.

Tower Mfg. Co. 51

Tape Measures.

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Berger Bros. Co 53
Chicago House Wrecking Co. 51
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Perkins, J. L. 52
Stanley Rule & Level Co. 49
Swaine, F. J. & Co. 44

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American Tin Plate Co. 54
Burton, W. J. & Co. 52
Canton Steel Roofing Co. 53
Garry Iron & Steel Co. 52
Illinois Roofing & Supply 55
La Crosse Steel Roof. & Cor. Co. 53
Merchant & Co. 54
McClure & Co. 56
Osborn, J. M. & L. A. 56
Taylor, N. & G. Co. 56

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Cooney & Geiger 52
Enterprise Mfg. Co. 49
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Canton Steel Roofing Co. 53

Ventilators.

Berger Mfg. Co. 54
Berger Bros. Co. 53
Burton, W. J. & Co. 52
Garry Iron & Steel Roofing Co. 52
Globe Ventilating Co. 1
La Crosse Steel Roof. & Cor. Co. 53

Wagons.

Shipman, Bradt & Co. 50

Washer Cutters.

Smith & Hemenway Co. 49

Washing Machines.

Benbow-Brammer Mfg Co 45
Brammer, H. F. Mfg. Co. 45
Clark, Quien & Morse 49
Randleman & Sons 45

Water Heaters

Smith, Chas. Co. 16

OUGHT NOT TO BE PRINTED.

A flustered young woman, out of breath, as though from walking fast, rushed up the steps of the mint recently, and asked to be directed to the bureau of information. "There isn't any," replied the uniformed messenger, a very fat man. "Perhaps I can tell you what you want to know." "Perhaps you can," said the young woman, producing a copy of a frivolous weekly paper. "I want to know if this is true." She pointed to a paragraph which read: "Among the curiosities of collecting is the fact that 1901 cents now bring about $19 in the coin market." The fat messenger adjusted his glasses and scrutinized the paragraph. While he was thus engaged the young woman explained that she had four 1901 cents, and wanted to know what made them so valuable, and where she could realize on them. Then the fat messenger grew purple in the face from suppressed laughter, which finally exploded, and seemed in momentary danger of having an apoplectic fit. He called the attention of the other messengers to the paragraph, and then followed combined roars of merriment. In the meantime the young woman with the four 1901 cents wondered if she had strayed by mistake into a lunatic asylum. Finally the fat messenger regained his breath sufficiently to gasp: "It's a joke. Don't you see? I'll give you $19 for 1901 pennies, and I'll be a cent ahead of the game. See?" A great light seemed to dawn in the mind of the young woman. "I dare say it's very funny," she said, "but I don't think such things ought to be printed." And she made her exit sorrowfully.—Philadelphia Record.

AMERICAN ELECTRICAL MACHINERY IN SCOTLAND.

It will be good news to American electrical manufacturers to learn that the Scotch trade in electric motors for electric power stations and coal mines is growing more and more important commercially each year. The market which is being opened up is sound and permanent, subject only to the ordinary fluctuations of trade. There is a growing preference for American electrical machinery, and, as long as prices and quality continue satisfactory, the trade built upon this foundation is likely to endure. It should be kept in mind by electrical manufacturers who intend to market goods in Scotland that it involves a clear demonstration of its merits to sell a Scotchman anything with which he is not familiar.—American Trade.

Trade Report.

BRADSTREET'S ON IRON AND STEEL SITUATION.

The editor of Bradstreets telegraphs us this advanced report on the iron and steel situation:

The air of patient serenity with which the iron and steel trades view the trade and strike situation is significant of the confidence growing that the end of the strike is in sight. Predictions that it will not last more than ten days longer are made by officials of the companies affected. Leaving out this matter the trade is in good shape and consumption is large. Finished products such as hoops, tubes, sheets, and tin plates are still bringing high premiums. Structural material plate and bar mills have orders for months ahead. Wire is scarce at Chicago owing to the Joliet shutdown. At Pittsburg Merchant furnaces are at the end of their orders and must pile stocks next month if the strike lasts. Foundry iron is in good demand at St. Louis and hardware is in active distribution at all western markets.

WIRE NAILS.

Wire nails are in good demand for immediate shipment. Carload lots are quoted at $2.45 and smaller lots at $2.50.

CUT NAILS.

Small lots of cut nails are quoted at $2.35.

BARB WIRE.

Painted barb wire is quoted at $2.75 in carload lots, and $2.85 in smaller quantities.

WHITE LEAD IN OIL.

In lots of 500 lbs. and over white lead in oil is quoted at 6½c per lb., and in lots of less than 500 lbs. it is 7c per lb.

LINSEED OIL.

City raw linseed oil in lots of 5 barrels or more is 58c per gallon, in smaller lots it is 59c. The recent rise and fall of this product have been sensational in the extreme.

SPIRITS TURPENTINE.

Southerns are 36½c to 37c per gallon, and machine made barrels from 37c to 37½c per gallon.

NUTS.

Nut prices are higher. Cold punch plain blank nuts square are $5.10 off list; do, hexagon, $5.50; C. T. & R. blank square, $5.30; do hexagon, $6.00; cold punch plain tapped nuts square, $4.90; do hexagon, $5.30; C. T. R. tapped square $5.10; do hexagon, $5.80; hot pressed square blank, $5.30; do hexagon blank, $6.00; hot pressed square tapped, $5.20; do hexagon tapped, $5.90.

BOLTS.

Some classes of bolts have advanced in price. Common carriage bolts are now listed at 65 and 5 per cent off; machine bolts with H. P. or C. P. plain nuts at 70 and 5 per cent off; machine bolts with C. & T. nuts at 65 and 10 per cent off; machine bolts without nuts at 70 and 15 per cent off; machine bolts, blanks, at 70 and 5 per cent off; bolt ends with H. P. or C. P. plain nuts at 70 and 7½ per cent; bolt ends with C. & T. nuts 65 and 12½ per cent; G. P. coach screws, 75 and 10 per cent; cone point lag screws, 75 and 15 per cent; skein screws 75 and 10 per cent; forged set screws and tap bolts 60 per cent; plow bolts and guard bolts 60 and 10 per cent; stud bolts 70 and 10 per cent.

BARS.

All the mills report heavy bookings, some of the business coming from jobbers, and the aggregate tonnage closed compares favorably with that of preceding weeks. The uncertainty regarding the prolongation of the strike and the difficulty in getting required shipments have led many large consumers to contract for the delivery of iron well into next year. One of the constituent companies of the United States Steel Corporation reports an order for about 1,000 tons of steel at 1.55c. We quote steel bars for immediate shipment, 1.70c, Chicago, and iron, 1.65c, Chicago. Out of store, steel, 1.90c; iron, 2c; on long time contracts, steel, 1.55c; iron, 1.60c.

SHEETS.

There is no diminution in the demand for this material. Nine-tenths of business is from store, and one warehouse reports that its stock is entirely exhausted. We revise our prices as follows: No. 27 black, 4.10c to 4.25c, and galvanized, 60 per cent and 5 per cent from store.

STRUCTURAL STEEL.

Though unconfirmed, it is reported that contracts were let in Milwaukee last week for a building which will require 1,000 tons of material. Business in small lots is very good, aggregating a very respectable tonnage. We quote mill shipments, car load lots, as follows: Beams, 15 inches and under, 1.75c; 18 inches and over, 1.85c; angles, 1.75c to 1.80c; plates, 1.75c, base; tees, 1.80c; zees, 1.75c; small lots from store ¼c higher; beams and channels from store, ½c to ¾c per pound higher.

PLATES.

Manufacturers report a continued good business, with mills several weeks behind in deliveries. Our quotations follows: Tank steel, base, ¼ inch, 1.75c; flange steel, 1.90c to 2c; marine steel, 1.95c; firebox steel, ordinary, 2c to 2.10c; special, 2.25c and upwards. Tank steel from store, 2c to 2.20c; flange steel from store, 2.25c.

Quotations.

METALS.

FIRST QUALITY BRIGHT PLATES.

		Per Box.
IC	10x14	$8 75
IX	10x14	10 50
IC	12x12	8 75
IX	12x12	10 50
IC	14x20	8 75
IX	14x20	10 75
IXX	14x20	11 75
IXXX	14x20	13 25
IXXXX	14x20	14 75
IC	20x28	17 00
IX	20x28	20 00
IXX	20x28	23 00

COKE PLATES.

Cokes, 180 lbs	IC	20x28	11 20
Cokes, 200 lbs	IC	20x28	11 50
Cokes, 216 lbs	IC	20x28	11 80
Cokes, 216 lbs	IX	20x28	13 75

PIG IRON.

Lake Sup. Charcoal	$17 50@$18 00
Local Coke Fdy No. 1	15 50@ 16 00
Local Coke Fdy No. 2	15 00@ 15 50
Local Coke Fdy No. 3	14 50@ 15 00
Local Scotch Fdy No. 1	15 50@ 16 00
Local Scotch Fdy No. 2	15 00@ 15 50
Local Scotch Fdy No. 3	14 50@ 15 00
Southern Coke No. 1	14 65@ 15 15
Southern Coke No. 2	14 15@ 14 65
Southern Coke No. 3	14 15@ 14 65
Southern Coke No. 4	13 90@ 14 15
Southern No. 1 Soft	15 40@ 15 55
Southern No. 2 Soft	14 90@ 15 15
Southern Silveries	15 45@ 15 50
Jackson Co. Silveries	17 00@ 17 50
Ohio Strong Softeners	16 50@ 17 00
Alabama Car Wheel	21 00@ 22 00
Malleable Bessemer	16 00@ 17 00
Coke Bessemer	17 50@ 18 50

BLACK SHEET STEEL.

¼ in. 3-16 in. Nos. 8 and 10. per lb.	$3 80
No. 12 per lb.	3 85
No. 14 per lb.	3 90
No. 16 and 18 per lb.	3 95
No. 20, 22, 24, 25 and 26 per lb.	3 90
No. 27 per lb.	4 00
No. 28 per lb.	4 18

SMOOTH STEEL.

	per lb.
Wood's Smooth Steel, 15-17	$4 00
" " " 18	4 10
" " " 20	4 20
" " " 22-24	4 30
" " " 25-26	4 40
" " " 27	4 50
" " " 28	4 60

PATENT PLANISHED SHEET STEEL.

Patent Planished Sheet Steel. "A" $10 20, "B" $9 20

GALVANIZED IRON.

Galvanized Iron 65%

SOLDER.

Extra 20½c

Commercial 19½c

SHEET ZINC.

600 lb. Casks, base ..... 7¼c per lb.

COPPER.

Copper ..... base, 21c

TIN PIGS AND BARS.

Banca, pigs, per lb. ..... 28¼@28½c
Straits, pigs, per lb. ..... 28 @28¼c
Straits in bars, per lb. ..... 28¾@29 c

LEAD.

American Pig ..... 4.00@4 62½c
Bar ..... 5½@5¾c

HARDWARE.

QUOTATIONS.

(The quotations given below represent the current hardware prices. They are not given as manufacturer's prices, and manufacturers should not be held responsible for them. Manufacturers sometimes name higher figures than those quoted for goods; they are not always selling at the price quoted, but goods are being sold at the figures printed below by manufacturers and jobbers.)

ADZES—CARPENTERS'.

Hunt's 25%
White's 12½%
Coopers'—Barton's 12½%
White's 12½%
Ship—Barton's 12½%
White's 15%
Hunt's 25%

AGATE NICKEL STEEL WARE.

Agate Nickel Steel Ware ..... 33⅓&10%

AMMUNITION

CAPS, PERCUSSION—per 1000—

F L Waterproof, 1-10s 50c
G D 40c
Eley's 52c

CARTRIDGES.

Peters Rim Fire Ctgs ..... 50&3%
Peters Cent Fire, Pistol & Rifle 25&3%
Peters Cent Fire, Military and Sporting Ctgs ..... 15&5%
Peters Blank Ctgs, except 22 and 32, an additional 10% from above discount.
Peters Blank Ctgs. 22 cal ..... 10&10%
Peters Blank Ctgs. 32 cal ..... 10&10%
Peters B B Caps, Round ball $1 18
Peters B B Caps, Conical ball $1 90
U. M. C. Rim Fire Ctgs ..... 50&3%
U.M.C. Cent. Fire, Pistol & Rifle 25&3%
Winchester Cent. Fire, Military and Sporting Ctgs ..... 15&8%
U. M. C. Blank Ctgs. 22 & 32 cal 10%
U. M. C. Blank Ctgs. 38 cal 50-10-10%
U. M. C. B B Caps, Round Ball ..... $1 75 ..... 25&10%
U .MC. B B Caps, Con. Ball. $2 00 net
U. M. C. Rim Fire Shot Ctgs 50&15&3%
U. M. C. Cent. " " " 25&10&3%

PRIMERS.

Berdan Primers $1 00
Peters Primers 1 10
U. M. C. Primers 1 08
Winchester Primers 1 08

SHELLS.

Peters Empty Paper Shells, 10 and 12 gauge. League ..... 25&5%
Peters Empty Paper Shells, 16 gauge. League ..... 20&5%
Peters New Victor Nitro shells 15%
Ideal ..... 33⅓&10%
Peters Loaded Shells. League and Semi-Smokeless ..... 40&5%
Peters New Victor Loaded Shells, with King's Smokeless ..... 40&10&10%
Ideals Loaded with Kings Smokeless ..... 40&10&10&5%
U. M. C. New Club, 16 guage ..... 20&10%
U. M. C. New Club 10 & 12 gauge ..... 33⅓&5%
U. M. C. New Club ..... 33⅓&5%
U. M. C. Nitro 18%
U. M. C. High Base 18%
U. M. C. Trap ..... 33⅓&10&7%
Winchester Blue Rivals ..... } 20%
Winchester Yellow Rivals ..... }
Winchester Repeater 18%
Winchester Leader ..... 33⅓&10&7%
U. M. C. Loaded Shells. Black Powder ..... } 40&5%
Winchester Loaded Shells, Black Powder ..... }
U. M. C. ..... } Smokeless
Winchester ..... } 40&10&10&5%

GUN WADS—per 1000.

Peters Gun Wads ..... 20&5%
U. M. C. Gun Wads ..... 20&5%

POWDER.

King's Quickshot Powder; Kegs $4 00; ½ kegs $2 25; ¼ kegs $1 25.
King's Semi-Smokeless ..... 20&5%
King's Smokeless ..... 25, 20 & 10
Austin Quickshot Powder. Kegs $4 00; ½ kegs $2 25; ¼ kegs $1 25.
Dupont Smokeless, Sporting ..... 25, 20 & 10c.

SHOT.

Drop shot, sizes smaller than B, 25-lb bags, per bag $1 35
Drop shot, B and larger sizes, 25-lb bags, per bag 1 60
Buck Shot, 25-lb bags, per bag 1 60
Chilled Shot, 25-lb bags, per bag 1 60

ANVILS.

Hay-Budden, 70 to 84 lbs ..... 10c per lb
Hay-Budden, 85 to 150 lbs ..... 9c per lb

AUGERS AND BITS.

Snell's Boring Mach. Augers 60&10&5%
Snell's Car Bits, 12-inch twist 40%
Jennings' Pattern Auger Bits ..... 50&10%
Russell Jennings' Augers and Bits ..... 25&10%
Ship Augers, L'Hommedieu Bits 15%
Irwin 50%
Climax Bits ..... 60&10%

AWLS.

Brad, handled	per doz.	$ 35
Brad, shouldered, assorted 1 to 4	per gr.	2 00
Brad, shouldered, assorted 1 to 6	per gr.	2 50
Peg, Pat.	per gr.	60
Peg, shouldered	per gr.	1 00
No. 1, Scratch, handled	per gr.	4 80
No. 5, Scratch, socket	per doz.	6 00

AXES.

Lippincott	per doz	6 50
Mann	"	6 50
Second quality	"	6 00
Beveled axes, add	"	50
Broad—		
Peerless can patt	"	28 50
Hunt's	"	30
White's	"	12%
Hand—		
Hunt's	"	40
White's	"	12%
Ship—		
White's	"	12%

AXLES.

Common iron, long arm, sq. bed 5¼
Concord iron. long arm, sq. bed 6¼
Concord express, long arm, steel, square bed 6¾
Coach shape on above, ex. per. lb. ..... ½
Short arms on above, extra per lb. 2
Welded axles on above, ex. per. lb 1½
Half Patent, steel, Nos. 7 to 14 70
Half Patent, steel, Nos. 19 to 22 70
Extra, coach shape, 1¼ & smaller ..... per set 15
Extra, coach shape, 1¼ 1½, per. set 30
Extra, coach shape, l'g'r, per. set $1 00
National Wrought Steel Tubular, Self-Oiling—
Standard Farm (1 to 5) and Special Farm (A1 to A5) less than ten sets 20%
Over ten sets 25

BEAMS—SCALE.

Scale Beams, List Jan. 12, 82 ..... 35%
Frary's 40%
P. S. & W. 30%

BELLOWS.

Blacksmiths 70%
Hand, 6½ in ..... per doz. $4 50
Molders', 10 in ..... per doz. 9 00

BELLS.

COW.

Ordinary Goods ..... 70&10%
High Grade ..... 60&10%
Jersey ..... 75&10%
Texas Star ..... 50&10%

DOOR.

Abbe's Gong 45%
Barton Gong 55%
Home, R. & E. Mfg. Co.'s ..... 55&10%
Lever and Pull, Sargent's. 20&10&10%

HAND.

Hand Bells, Polished ..... 60@60&10%
White Metal ..... 55@55&10%
Nickel Plated ..... 50@50&10%
Swiss 60%
Silver Chime ..... 33⅓@33⅓&10%

MISCELLANEOUS.

Farm Bells ..... lb. 2¼ to 2½c
Steel Alloy, Church and School ..... 50&10&5@60%
Wilmot & Hobbs Mfg. Co., Gongs. 70%

BIT STOCK DRILLS.

Standard List ..... 60@60&5%

BLOCKS.

Common Wooden 70%
Eddy Steel Tackle Blocks ..... 60%&5%

BOLTS.

CARRIAGE, MACHINE, ETC.

Common, list Jan. 30, 95 ..... 65%
Norway Iron, $3.00, list Oct. 7, '84 ..... 75&10%
Bolt Ends, list Jan. 30, '95 ..... 50&10%
Machine, list Sept. 20, '99 ..... 65&10%

DOOR AND SHUTTER.

Ives' Patent Door 60%
Wrought Barrel, Standard list ..... 70&10%
Wrought Flush ..... 40&10%
Wrought Square, Standard list 65%

STOVE AND PLOW.

Plow ..... 40&10%
Stove, list December 28, 1899 70 to 70&10%

TIRE

Common, list Dec. 28, '99 ..... 70%
Eagle Philadelphia 72½%
Norway 75%

BORING MACHINES.

Jenning upright without Augers $2 00

BOXWOOD RULES.

No. 4	$11 00	per doz
" 12	16 00	"
" 18	6 00	"
" 26	11 00	"
" 27	13 00	"
" 29	4 50	"
" 66	10 00	"
" 66½	10 00	"
" 67	6 00	"

Boxwood ..... 80&10%
Ivory ..... 40&10%
Lufkin's Steel ..... 50&10%

BRACES.

Barber's ..... 50&19%
Common Ball, American $1 50
Fray's Genuine Spofford's 60%
Fray's No. 207 to 322 ..... 40&5%
Fray's No. 506 to 522 ..... 50%

BRACKETS.

Cast Iron Plain ..... 50&10%
Wrought Steel ..... 70&10@ 75%
Bradley's ..... 75 @ 75&10%

BROILERS.

Wire Goods Co 75%

BUTTS.

Bright Butts, Nos. 800, 802, 804, 806, 808, 810, 814, 816, 818, 820, 854 ..... 70%
Bright Butts, Nos. 826, 828, 829, 830, 832, 834, 836, 838, 840, 842, 843, 844, 845, 846, 848 ..... 70%
Bright Butts, Nos. 822, 822½, 823, 823½ 70%
Japanned Butts, Nos. 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 726, 727, 728, 729, 730, 731 ..... 70%

CAGES—BIRD.

Enameled 40%
Brass 1200 series 33⅓%

CASTERS.

Bed ..... 60&10&5%
Plate Casters ..... 60&10&5%
Martin's Patent (Phoenix) ..... 50&5%

CHAIN.

American Coil, Cask lots:

3-16	¼	5-16	⅜	7-16	½	9-16
7.45	5.55	4.55	3.70	3.55	3.45	3.40

⅝ ¾ ⅞ to 1 1⅛ to 1¼ inch
3.40 3.35 3.35c. per lb. 3.60 per 100 lbs
Less than Cask lots add 25c.
German Coil, list July 24, '97 ..... 60&10&10%
German Halter Chain, list July 24, '97 ..... 60&10&10%
Traces, Western Standard: 100 pair
6½—6-3, Straight, with ring $26.00
6½—6-2, Straight, with ring 27.00
6½—8-2, Straight, with ring 31.00
6½—10-2, Straight, with ring 34.50
Add 2c per pair for Hooks.
Twist Traces 2c. per pair higher than Straight Link.
Trace, Wagon and Fancy Chains
Eastern list ..... 60@60&5%
Jack Chain, list July 10 '98
Iron ..... 60@60& 10
Brass ..... 60@60& 1

Safety Chain.....70@70&10%
Gal, Pump Chain.....lb. 4½@4¾c
Covert Sad. Works:
Breast, Hitching and Rein Chains.....50%
Covert Mfg. Co.:
Breast.....35&2%
Halter.....35&2%
Heel.....35&2%
Rein.....35&2%
Stallion.....35&2%
Oneida Community:
Eureka Coil and Halter...60@60&5%
Niagara Coil and Halters.60@60&5%
Niagara Cow Ties..45&5@45&10&5%
Am, Coil and Halters..50&10&5@60%
Am. Cow Ties.....35&5@40&5%
Wire Goods Co.:
Dog Chain.....60&10%
Universal Dbl-Jointed Chain 50%

CHALK.

Blue.....per gross 60c
Red..... " 50c
White..... " 45c

CHALK LINES.

Chalk lines.....per doz. $2 50

CHISELS.

Mix..... } 70&5 to 70&10%
Witherby..... }

CHISELS.

Box.....20%
Tinners.....40%
Cold, per lb,. regular qual.....20%
Cold, per lb., special qual.....32%
Corner.....66⅔%
Firmer, American..... 20, 10&10%
Barton's.....20%
Butcher's.....40&10%
Mortice, Butcher's.....40&10%
Socket, Firmer 70%
Framing.....70%
Turning, Barton's.....20%
Butcher's.....50%
Beveled.....20%

CLAMPS.

No. 25 Adjustable.....50&10 to 60%
Carriage Makers..... 50&10&5%

CLEANERS.

Pot.....per doz $1 10

CLEAVERS.

Beatty's.....dis 40
White's..... " 15

CLIPPERS.

E. H. Hotchkiss Horse Clippers
No. 10.....per doz $18 00
No. 30..... " 15 60
No. 22..... " 13 80
No 20..... " 18 20
No. 8..... " 10 80
H. Hotchkiss Toilet Clippers
No. 1.....per doz 9 60
No. 101..... " 10 80
No. 201..... " 10 80
No. 300..... " 13 20
No. 500..... " 15 00

COFFEE MILLS.

Enter. Mfg. Co., list Jan. 17, '93....25%
Parker's.....50&10%
Arcade..... 60&10%

CORKSCREWS.

Howes..... 25 & 22%
Humason & Beckley..... 40 & 10%
Empire..... 40%
Walker's..... net
Williamson's Regular..... 40%
Williamson's Forged Worm 40%

DOG COLLARS.

Pope & Stevens' List:
Brass (full Assortment).....net price

DOOR CHECKS.

Blount.....30%
Eclipse.....30%
Corbin.....30%

DRILLS AND DRILL STOCK.

Common Blacksmith's Dr .....$1 50@$1 60
Bench Drills, Stearns' .....5 50& 6 00
Blacksmith's Self-feeding, each, ...$5 00&$7 00
Breast, Millers Falls, each .$3 00 20%
Godell Automatic Drills,$12 00to$15 00

EGG BEATERS.

Standard Co.:
No. 5 Steel Handle Dover per gross.....$ 6 50
No. 10 Cast Handle Dover pr gr 8 00
No. 10 Steel H'ndle Dov'r pr gr 8 00
No. 15 Extra Heavy Steel Handle per gr..... 15 00
Rival per gr..... 10 00
Taplin Mfg Co.:
No. 50 Small Family size pr gr 6 50
No. 100 Regular Fam size pr gr 8 00
No. 102 Regular Family size tinned pr gr..... 9 50
No. 150 Large Fam size pr gr.. 15 00
No. 152 Large Family size tinned pr gr..... 17 00
Lyon's Standard size per doz.. 1 75
Wonder (S. S. & Co.) per gr.... 7 50

ENAMELED WARE.

Peerless (L. & G. Mfg. Co.).....Net
Royal (N. E. & S. Co.).....Net

FASTENERS, BLIND.

Zimmerman's.....50&10%

FAUCETS.

Standard Metal Key.....25%
B. & L. B. Co.
Redlich's Wood Faucets.
Red Cedar..... } Net Prices.
Oak..... }
Cherry..... }
Cork Lined..... }
Metal Key..... }
Self Measuring:
Enterprise, per doz. $36 00.....40%
Cork Lined.....70&5@70&10&5%
Metallic Key, Leather Lined .....70@70&10%
Red Cedar.....50@50&5%
B. & L. B. Co.:
West's Lock, Open and Shut Key.....50&10%
John Sommer's Peerless Tin Key..40%
" " Boss Tin Key 50%
" " Victor Metal Key..50&10%
" " Duplex Metal Key....60%
" " Diamond Lock.....40%
" " 1 X L Cork Lined ...50%
" " Reliable " " ..50&10%
" " Common " " 70%
" " Chicago " " 60%
" " O K " " 50%
" " Perfection Cedar..... 40%
Star.....60@60&5%
Star, Metal Plug new list... 40@40&5%
Lockport, Metal Plug, reduced list.....60&5%
McKenna, Brass:
Burglar Proof, N. P.....35%
Improved, ¾ and ⅞ inch.....35%
Self Measuring:
Enterprise, per doz $36.00.....40%
Lane's, per doz. $36.00.....40&10%
National Measuring, per doz $36.00.....40%

FILES—Domestic.

New List, Nov. 1, '99:
Black Diamond.....70&10%
Disston's.....75& 5%

Imported.

Stubs list.....5%

FORKS AND HOES.

Coke and Cottonseed Forks....40&5%
Coal Forks.....40&5%
Barn or Ice Forks.....40&5%
Beet Forks.....30&10
Ballast or Stone Forks.....40&5%
Tanners' Forks.....40&5%
Shaving Forks.....40&5%
Potato Scoop Forks.....40%
Oyster Forks.....40&5%
Sluice Forks.....40&5%
Heavy Mill, Manure or Street Forks.....70%
Steel Tar or Asphalt Rakes.....65%
Asphalt Hoes.....65%
Two Tine Hay Forks, Std. Size...65%
3 Tine Hay Forks, Std. Size..60&16⅔%
Four Tine Hay Fork, Std. Size 66⅔%
Socket Four Tine Hay Forks..66⅔&5%
Socket Four Tine Manure Forks...70%
Socket Four Tine Spading Forks .....70&5&5&2½%
Three Tine Hay Header and Baler Forks.....67½&2½%
Four Tine Hay Header and Baler Forks.....66⅔%
Grain or Barley Forks.....70&6%
Four Tine Manure Forks.....70%
Five & Six Tine Manure Forks.....70%
Spading Forks.....70&2½%
Potato Digging Forks.....65%
Stone Picking Forks.....65%
Garden Hoes.....75%
Meadow and R. I. Hoes...75&5&2½%
Sunbeam Meadow Hoes.....75&5&½%
Mortar and Street Hoes.....75&2%
Planter Hoes, Regular Pattern.70&30%
Tobacco Hoes.....75&20%
Cotton Hoes.....70&10&10&5&2%
Rough Fin. Shank Cot. Hoes 75&12½%
Cotton Chopper Hoes....75&10&7½%
Ladies' Cotton Hoes.....75&10&7½%
Malleable Rakes.....70@70&10%
Toy Ladies' and Boys' Hoes.....70&10to70&10&5%
Weeding Hoesand Rakes...70@70&5%
Potato Hooks.....65to65&10%
Hop Hooks.....60&10&2½%
Steel Garden Rakes.....70&2%
Steel Garden Rakes Stamped blank 70%
Turf Edgers.....60&5%
Steel Road Rakes..... 65%
Special Mortar Hoes.....40&10&2½%
Harpers' No. 7 Mortar Hoes.... ..65%
Truck Hoes.....50&10&2%
Hoes.....65%
Special Hoes.....75&10&2%
Hoe Down Hooks.....75&10&2%
Warren Hoes.....50&10&7½%
Laid Steel Edge Hoes.....25, 5&2%

GAUGES.

Marking, Mortise, etc.....60%
Stanley R. & L. Co.'s Butt & Rabbet Gauge.....Net
S. & H. Cos.....75%

GIMLETS.

Gimlets.....60%

GLASS CUTTERS

Woodward.....33⅓&10%
Red Devil.....33⅓&10%

GLUE POTS.

Tinned.....30%
Enameled.....35%

GLUE.

Martin's Liquid, List....33⅓% off List
Martin's Liquid, List....33⅓% off List
Martin's Liquid, List....33⅓% off List

GREASE, AXLE.

Fraser's.....Ne
Baum's Castorine.....Net

GRINDSTONE FIXTURES.

Stowell's..... Net
Reading Hardware Co.....Net

HAMMERS.

"Artisan's Choice" A. E. Nail.40&10%
Engineer's and B. S. Hand.....60%
Machinist's Hammers.....60%
Bell Face, A. E. Nail.....50
S. & H. Cos. No. 20 ....per gross. 5 25

HANDLES—IRON, WROUGHT OR CAST—DOOR OR THUMB.

No. 0.....per doz $0 90 } Discount
No. 1..... " 1 00 }
No. 2..... " 1 18 }
No. 3..... " 1 35 }
No. 4..... " 1 50 }
Bronze iron drop lat., per doz net $1 10
Japanned store door.....net 1 10
Barn door No. 5..... " 1 35
Chest and lift.....dis 50
Wood—
Saw and plane..... " 45
Hammer, hatchet, axe, etc.... " 45
Brad awl.....per gro. 45
Hickory firmer chisel..... } ..25
Apple firmer chisel..... }
Socket firmer chisel..... }
Socket framing chisel,..... }
File.....per gro. $2 80
Auger, assorted..... 5 00
Hoe, rake, shovel, etc..... 50
Cross Cut Saw—
Atkins' No. 1.....per pair 28
" No. 3..... " 18
" No. 6..... " 12
Triumph..... " 12
Common loop..... " 10

HANGERS.

Chicago Spring Butt Co.
Friction.....25%
Oscillating 25%
Big Twin.....25%
Cronk Hanger Co.:
Loose Axle.....60%
Roller Bearing.....60&10%
Lane Bros.:
Parlor, Ball Bearing $4.00
Parlor, Standard 3.25
Parlor, New Model 2.75
Parlor, New Champion..... 2.40
Barn Door, Standard .....60&10%
Covered .....50&10&10&5%
Special .....60&10%
Lawrence Bros.:
Advance.....60%
Cleveland .....60&10%
Crown.....60%
New York.....60%
Peerless .....60&10%
Sterling 60%
McKinney Mfg. Co.:
No 2, Standard, $18.....60&10%
No. 1, Special, $13.....60&10%
Stowell Mfg. and Foundry Co.:
Acme Parlor Ball Bearing 40%
Atlas.....50&10%
Badger Barn Door.....50%
Baggage Car Door.....50%
Climax Anti-Friction.....50%
Elevator 40%
Express.....50%
Interstate .....50&10%
Lundy Parlor Door.....50%
Matchless.....50&10%
Nansen.....60&10%
Stowell Parlor Door 50%
Railroad 50%
Street Car Door.....50%
Steel, Nos. 300, 404, 500.....40&15%
Wild West..... 50%
Zenith for Wood Track 50%
Taylor & Boggis Foundry Co.:
Kidder's .....50@50&10%
Wilcox Mfg. Co:
Bike Roller Bearing .....60&10%
C. J. Roller Bearing.....60&10%
Cycle Ball Bearing.....50%
Dwarf Ball Bearing.....40%
Ives, Wood Track.....60&10%
L. T Roller Bearing.....60&10&5%
New Era Roller Bearing .....50&10%
O. K. Roller Bearing.....60&10&5%
Prindle, Wood Track 60%
Richards' Wood Track 60%
Richards' Steel Track .....50&10%
Spencer Roller Bearing.....60&10%
Tandems, Nos. 1 and 2.....60%
Underwriters' Roller Bearing....40%
Wilcox Auditorium Ball Bearing 20%
Wilcox Barn Trolley No. 123 ....40%
Wilcox Fire Trolley, Roller Bearing 30%
Wilcox Le Roy Noiseless Ball Bearing 40%
Wilcox New Century ....50&10&10%
Wilcox Trolley Ball Bearing.....40%

HATCHETS.

American Axe and Tool Co..... } 40&10%to40&10 &5%
Blood's..... }
Hunt's..... }
Hurd's..... }
Mann's..... }
Underhill's..... }
C. Hammond & Son.. }
Fayette R. Plumb.... }

HAY AND STRAW KNIVES.

Lightning.....$6 50&$7 00

HINGES.

BLIND AND SHUTTER.

Surface Gravity Locking Blind:
(Victor; National; 1868 O.P.; Niagara; Clark's O. P.; Clark's Tip; Buffalo.)
No.....1 3 5
Doz pair.....$0.75 1.45 2.90
Mortise Shutter:
(L. & P., O. S., Dixie &c.)
No.....1 1½ 2 2½
Doz. pair.....$0.60 55 52 45
Mortise Reversible Shutter, (Buffalo, &c.)
No.....1 1½ 2
Doz. pair.....$0.65 .60 .55
Parker.....70@75%
North's Automatic Blind Fixtures, No 2, for Wood $9.00; No. 3, for Brick $11.50.....10%
Reading's Gravity.....75&10%
Sargent's, No. 1, 3, 5.....66⅔&10%
Sargent's Nos. 11 & 13.....70&10%
Wrightsvile H'dware Co.:
O. S., Lull & Porter.....80&2½%
Acme, Lull & Porter.....75&10%
Queen City Reversible.....75&10%
Stenger's Positive Locking, Nos 1 & 3.....70&10&5%
Shepard's Noiseless, Nos. 60, 65, 55 70&10%
Niagara, Gravity Locking, Nos. 1, 3 & 5 .....75&7½%
1868, Old Pat'n. Nos. 1, 3 & 5 75&7½%
Tip Pat'n, Nos. 1, 3 & 5.....75&7½%
Buff, Gravity Lock., 1, 3, 5..75&7½%
Shepard's Double Locking, Nos. 20 & 25.....70&10%
Champion Gravity Locking, No 75 75&7½%
Steamboat Gravity Locking, No 10 5&7½%
Pioneer, Nos 060, 45 & 5½..75&7½%
Empire, Nos 101 & 103.....70&7½%
W. H. Co's Mortise Gravity Locking No. 2.....60&10%
Stanley's Steel Gravity Blind Hinges, per doz. sets $1.30.....30&10%

GATE.

Clark's or Shepard's—Doz. sets:
No.....1 2
Hinges with Latches $1.90 2.50

Hinges only..... 1.30 1.90 2.90
Latches only..... 65 65 95
New England:
With Latch.....doz....@$1.55
Without Latch.....doz....@$1.25
Reversible Self-Closing:
With Latch.....doz....@$1.80
Without Latch.....doz ...@$1.45
Western:
With Latch.....doz. $1.40@1.75
Without Latch.....doz. $0.95@1.30
Wrightsville H'dware Co.:
Shepard's or Clark's Nos. 1 & 2... 65&2½%
Shepard's or Clark's, No. 3....55&5%

SPRING

Ho'dback, Cast Iron, gros. $8.00@8.25
Non-Holdback, Cast Iron.... gro.$6.75@7.25
Extra 10% often given on most of these hinges.
J. Bardsley:
Bardsley's Patent Checking 15%
Bommer Bros.:
Bommer Spring Hinges 40%
Bommer Ball Bear. Floor Hinges.40%
Chicago Spring Butt Co.:
Chicago.....20%
Floor Hinge.....40%
Garden City Engine House.....20%
Keene's Saloon Door 20%
Triple End.....40c
Hoffman Hinge & Foundry Co.:
No. 70 & 80 Holdback Detachable $8.50
Lawson Mfg. Co.:
Matchless.....30%
Matches Pivot.....35%
Payson Mfg. Co.:
Oblique.....50&10%
Stover Mfg. Co.:
Ideal, No. 16, Detachable, per gr. $12.50
Ideal, No. 4 .....per gr. $9.00
New Idea No 1.....per gr. $9 00
New Idea, Double Acting.....45%

WROUGHT IRON

Strapand T Hinges, list Mar. 15, 1901:
Light Strap Hinges.....75%
Heavy Strap Hinges.....80%
Light T Hinges.....70%
Heavy T Hinges.....66⅔%
Extra Heavy Hinges.....75&10%
Hinge Hasps..... .....60%
Cor. Heavy Strap.....80%
Cor. Ex. Heavy T.....75&10%
Screw Hook and Strap:
6 to 12 in.....l b. 3½c
14 to 20 in.....lb. 3¾c
22 to 36 in.....lb. 3 c
Screw Hook and Eye:
¾ to 1 inch.....lb. 5c
⅝-inch.....lb. 6c
½-inch.....lb. 7c

MISCELLANEOUS—

Hoffman's Steel Spring Butt Hinges 40&10%
Hoffman's OffsetRefrigeratorHinges 40&10%

HOLLOWWARE.

Stove Hollowware Ground.....50%
Maslin Kettles.....70&10%

HOOKS.

Picture, No. 299 .....&28c

BUSH HOOK.

No. 1, Underhill $9 00
Bird cage 40%
Clothes line .....60&10&10%
Grapling.....50%
Ceiling.....60&5%
Coat and Hat .....60&5%
Harness .....60&10&10%

WROUGHT IRON.

Cotton, V. & B.....25%
Tassel and picture.....50%
Wire, Coat and Hat, Gem.....net
Indestructible.....45%
Brass .....net $2 00%
Hooks and eyes, bright wire....80&10%
Brass.....60&10&5
Fish hooks, American.....50%

HOSE—RUBBER.

Competition.....dis 70&10%
Standard 70%
Extra 60%
N. Y. Rubber Co.'s st'd.....50&10%
Banner.....60%
Extra..... 50%

IRONS—SAD AND POLISHING.

Mrs. Potts' No. 50.....70c
Mrs. Potts' No. 55.....70c
Mrs. Potts' No. 60.....90c
Mrs. Potts' No. 65..... 95c

KNIVES.

Standard List.....70&5%
Adjustable Handle.....25@33⅓%
Watrous.....30&10@40%
Cantelo's Folding.....25%
Improved Crown.....20%

KNOBS.

Base, 2½in. Birch Rubber tip ℔ gro.....$1 40
Door, Mineral.....℔ doz. 65c
Door, Por. Jap'd.....℔ doz. 75c

LADLES.

Reading.....Net
Sargent's.....Net

LANTERNS -TUBULAR.

No. 0 Berger's "Bail Lift," per doz. $9 50.....40&10%
No. 0, Berger s "Bail Lift," Galvanized, per doz. $10 50...40&10%
No. 2 Berger's "Bail Lift," per doz. $13 00.. .....40&10%
No. 2 Berger's "Cold Blast," per doz. $16 00.....40&10%
No. 0 Berger's Dash Board, Japanned, Plain Globe, per doz. $13 00.....40&10%
No. 0, Berger's Dash Board, Japanned, Bull's Eye, per doz. $13 50.....40&10%
No 2, Berger's Dash Board, Japanned, Plain Globe, per doz. $17 00 .....40&10%
No. 2, Berger's Dash Board, Japanned, Bull's Eye, per doz. $17 50.....40&10%

BULL'S EYE POLICE.

2¾-in. flash light, per doz. $3 50@$3 75
3-in. flash light, per doz. ..4 00@ 4 25
4¾-in. regular, per doz.....3 50
3-in. regular, per doz.....3 57

LEMON SQUEEZERS.

Wood, Common, per gr., No. 0 $5 00; No. 1 $6 50; No. 2 $10 00.

Wood, Porcelain lined, No. 1.....per doz. $3 00@$3 50
Tinned Iron.....per doz. 1 25
Iron, Porcelain Lined, per doz.....3 25@ 3 50
Jenning's Star...per doz. 1 85@ 1 90
King.....per doz.

LOCKS.

Plate 33⅓%
Slaymaker-Barry Co.....30&35%
Sargent & Co.....40, 40&10%
Yale flat key.....net
L. & C, round key.....30&10%
Reading Harding Co.....40%
L. & C. flat key latches .....33&10%
Stearns' sliding door....net $15 00

CABINET.

Eagle.....33⅓%
Yale.....33⅓%
Eagle and Corbin trunk.....25%

PADLOCKS.

Wilcock's..... 70%
M. W. & Co..... 70%
Russell & Irwin 70%
Slaymaker Barry Co..... 40%
Bohannon's brass..... 30%
Yale.....net
Eagle 33⅓%
Eureka, Eagle Lock Co 40%
Corbin.....33⅓&10%

MALLETS.

Fiber Head Sterns.....30&10%
Hickory..... .....40%
Lignumvitæ .....40&40&10%
Tinners'. Hickory and Applewood, per doz. .....75c@$1 50

MATTOCKS.

Regular list.....70%

MOWERS, LAWN.

Cheap.....all sizes, $2 00@$2 10
Good.....all sizes, $2 50@$2 75

	10	12	14	16-in
High Grade....	4.25	4.50	4.75	5.00

Pennsylvania and Continental .....Net price
Genuine Philadelphia Mowers:
Styles M. S., C., K., T.....70&10%
Style A, (all steel).....60&10%
Style E, Low Wheel.....60&10%
Style E., High Wheel.....70&10&5%
Drexel, low list.....60%
Gold Coins, low list.....60%
Dewey's.....Net prices
All Day .....Net prices

NAIL PULLERS.

Giant, No. 1..... per doz., $18 00. 40%
" No. 1½.... " 16 00. 40%
" No. 2..... 15 00. 40%

Ajax.....Net prices.
Diamond B.....per doz., $ 9 00
Pipe.....per doz., 12 00
Eureka.....per doz., 10 00

NAIL SETS.

Octagon..... per gross, $8 00@$9 00
Round..... per gross, 8 00@ 9 00
Cannon's Diamond Point, per gross .....$9 00 Net

NUT CRACKERS.

Sargent's No. 12.....$1 50

OILERS.

Tin or Steel.....50%
Zinc..... 50&10&5 to 60%
Malleable Hammers 35%
Malleable Hammers, old pat., same list .....Net

PADLOCKS.

Sargent Dog Collar 70%
Sargent Wrought Steel and Brass..80%

PINCHERS.

Carpenters', wrt. iron, pol. steel jaws..... 25%
Blacksmiths'..... 40%
P. S. & W..... 25%

PIPE.

WROUGHT.

List February, 1898.
1¼ and under, plain.....50&2½%
1½ and under, gal.....50&2½%
1½ and over, plain.....50&2½%
1½ and over, gal..... 50&2½%
Boiler tubes..... 50&2½%

PLANES.

Stanley Planes, No. 100.....$.30 each
" " No. 130..... .25 each

PLIERS AND NIPPERS.

Swedish Side Cutting Pliers 40%
" End " " 40%
" Diagonal " " 40%
Halls Compound Nippers.....40%
U. D. F. & T. Co., all kinds.....Net

PLUMBS AND LEVELS.

Common.....75 to 75&5%
Disston's.....60%

POACHERS.

Buffalo Steam Egg No. 1, per doz. $7 20. 50%

POLISH.

POLISH—METAL.

U. S. Metal Polish Paste, 3 oz. boxes, per dozen, 50c; per gr. $4.50; ½lb boxes, per doz. $1.25; 1 lb boxes, per doz.....$ 2 25
U. S. Liquid, 8 oz. cans, per doz. $1.25; per gr..... 12 00
Barkeepers' Friend Metal Polish, per doz. $1.75, per gr..... 18 00
Universal Paste, 3 oz. boxes.....60%
Burnishine Liquid 5 lb..... 16 00

POLISH—STOVE.

Dixon's .....per gross, $5 75
Dixon's Plumbago.....per lb 6½c

POPPERS, CORN.

Round or Square, 1 qt....per doz., 65%
Square, 1½ qt.....per doz., $1 00
Square, 2 qt.....per doz., 1 00

POST HOLE AUGERS AND DIGGERS.

Iwan's Patent Post Hole Auger....40%
Eureka Perfection Post Hole Digger, per doz.....$10 00
Atlas, per doz..... .... 8 25

POWDER.

IN CANISTERS.

Duck, 1 lb each.....45c
Fine Sporting, 1 lb each 75c
Rifle, 1 lb each..... ....$1 00

IN KEGS.

Duck, 6½ lb kegs.....$2 50
Rifle, 6¼ lb kegs..... ..... 1 25
Rifle, 12½ lb kegs..... 2 25
Rifle, 25 lb kegs..... ..... 4 00

PRESSES — FRUIT AND JELLY

Enterprise Manufacturing Co.....25%

PULLEYS.

Hay Fork, Svl, Sd Eye, doz $1 75@$2 75
Hot House, Awning, etc.....50%
Japanned Clothes Line.....50%
Japanned Screw.....50&10%
Japanned Side.....50&10%
Sash (Auger Mortise):
Common Sense, 1¾ in ..per doz. 19c
Common Sense, 2 in ... per doz. 20c
Empire.... ....17c.; 2 in., 22c

SASH PULLEYS.

Fox No. 3 or No. 7, 2½ wheel, ...25c per doz
Fox No. 9, 1¾ wheel.....20c per doz
Extra for plated Finish... 25c per doz
Extra for Anti-Friction Bronze Bushing.....10c per doz

RAZORS.

Fox Razors No. 42....per doz. $20
" " " 44.... " " 24 00
" " " 82..Platina " 24 00
Discount 40%
Rantankarus..... " 16 00

REGISTERS.

Black Japanned Registers, Ventilators, Faces and Borders, ...60 to 60&10%
White Japanned Registers, Ventilators and Faces..... .....50%
Bronzed Finishes in Imitation of Gold, Silver, Copper or Bronze .....40&10%
Nickelplated..... ....60%
Electro-Plated in Brass, Bronze, Copper or Oxidized Silver....40&10%
White Porcelain.....20%
Solid Brass and Bronze Metal.....20%

RIVETS AND BURRS.

Coppered Iron Rivets.....60&5%
Tinners Rivets.....60&5%

ROOFING SUPPLIES.

EAVE TROUGH.

"Perfection" Galvanized Eave Trough.....75&10%
"Eclipse" Galvanized Eave Trough.....75&10%
Double Bead Galvanized Slip Joint Eave Trough.....75&10%
Double Bead Galvanized Lap Joint Eave Trough.....75&10%

GUTTERS.

Roof Gutters, Galvanized.....75&10%

PIPE.

Plain Round Pipe, Galvanized, Nested.....60&20&2½%
Plain Round Pipe, Galvanized, Unnested.....60&20%

VALLEYS.

Valleys, in Rolls, IC and IX Terne.70%
Valleys, in Sheets, IC and IX Terne.....70%

HOOKS.

Flashing Hooks.....10%
Wrought Conductor Hooks.....60%

CUT-OFFS.

Kuehn's Galv.....60%
Acme Galv.....10&10%
Acme Tin.....60&10%
Centennial Tin.....20%

EAVE TROUGH HANGERS.

Eave Trough Hangers, Single and Double Bead, Imperial.....10%
Eave Trough Hangers, Single and Double Bead, Wire.....

ELBOWS.

One Piece Conductor Elbows, Galvanized, Corrugated..... 60%
Adjustable Elbows, Tin, ...50%

PREPARED ROOFINGS.

Imperial 2-ply Tarred Roofing complete.....$1 75 per sq.
Imperial 3-ply Tarred Roofing, complete.....$2 00 per sq.

ROPE.

Per lb.
Manilla, 7-16 inch diameter and larger.....9½@10c " "
Manilla, ⅜ in.....9¼@9½c " "
Manilla, ¼ and 5-16 in..... 10½@10¾c " "
Sisal 7-16 in. and larger 7@7¼c " "
Sisal, ⅜ inch .....8@8¼c " "
Sisal, ¼ and 5-16 in.....8@8¼c " "
Sisal, Medium Lath Yarn ... 9@9¼c " "

SASH CORD.

Braided, Drab.....lb 25c
Braided, White common..lb 17½@18c
Cable Laid Italian ....lb, A 18c, B 16c
Common India.....lb 9c@9½c
Cotton Sash Cord, twisted....12@16c
Patent Russia.....lb 12½@13c
Cable Laid Russia.....lb 13½@14c
India Hemp, braided.....lb 14@15c
India Hemp, twisted.....lb 10@12c
Patent India, twisted.....lb 10@12c
Pearl Braided, cotton .....lb 17@18c
Massachusetts, white.....lb 22½c
Massachusetts, drab.....lb 20½c
Eddystone Braided, cotton ....lb 19c
Harmony Cable Laid Italian....lb 18c
Ossawan Mills:
Crown, Solid Braided, white ..lb 18c
Braided, Giant, white.....lb 17c
Peerless:
Cable Laid Italian.....16c
Cable Laid Russian.....14c
Cable Laid India.....12c
Braided India.....18c
Phœnix, white.....19c
Samson:
Braided, Drab Cotton .....lb 32½c
Braided Italian Hemp.....lb 32½c
Braided, Linen.....lb 40c
Braided, White Cotton, Spot.lb 28½c
Silver Lake:
A quality, Drab, 40c.....15%
A quality, White, 35c.....15%
B quality, Drab, 35c.....15%
B quality, White, 30c.....15%
Italian Hemp, 40c.....15%
Linen, 57½c.....15%

SASH LOCKS.

Ives, Patent.....60@40&5%
Payson's Perfect.....Net
Payson's Signal (new list).....Net

SAWS.

Atkins' Circular.....Net
Atkins' Band.....Net
Atkins' Cross Cuts.....Net
Atkins' Mulay, Mill and Drag.....40%
Atkins' One-Man Saw.....Net
Atkins' Circular Solid and Inserted Tooth.....50%
Atkins' Bands over 2 in. wide.....60%
Atkins' Bands under 2 in. wide.57&10%
Atkins' Mill, Mulay and Drag.... 50%
Atkins' Cross Cuts.....40%
Atkins' One Man.....40&10%
Atkins' Narrow Cross Cuts.....40%
Atkins' Wood Saws and Blades.40&10%
Atkins' Hand Saws.....40%
Atkins' Compass Saws.....50%
Atkins' Butcher Saws.....40&10%
Disston Circular Solid and Inserted Tooth.....50%
Disston Cross Cuts.....Net
Disston Narrow Cross Cuts.....Net
Disston, Mulay, Mill and Drag....40%
Disston Framed Woodsaws.....35%
Disston Woodsaw Blades.....40%
Disston Woodsaw Rods.....25%
Disston Handsaws, Nos. 12, 99, 9, 16, D100, D8, 120, 76, 77, 8.....25%
Disston Hand Saws, Nos. 7, 8.....30%
Disston Compass, Keyhole, etc....25%
Disston Butcher Saws and Blades.35%

SAW FILERS

Stearns'.....25%
Silent saw.....35%
Sargent's.....60&30%
Reading.....37½%

SCALES.

Family, Turnbull's .....30@30&10%
Hatch, Counter:
Platform, 4 lb. by ½ oz..doz...$5.75
2 Platforms, 8 lb. by ½ oz. doz $16 00
Union Platform, Plain.....$1.75@$2.00
Union Platform, Striped..$1.85@$2 15
Chatillon's Eureka.....25%
Chattilon's Favorite.....40%
Chatillon's Grocers' Trip Scales ..50%
Pelouze Scales, Household Counter, Confect. Postal, Ice, &c.....50%
"The Standard" Portables.....45%
The Standard" R. R. and Wagon 50%

SCREWS.

BENCH AND HAND.

Bench, Iron.....per doz. 60%
Bench, Wood, Beech..per doz. $3 50
Hand, Wood.....80%

COACH, LAG AND HAND RAIL.

Coach and Lag, Gimlet Point, list Sept. 20, 1899.....75@75&10%
Hand Rail, list Jan. 1, 1871..... ..75%

JACK SCREWS.

ack Screws.....70%

WOOD.

MANUFACTURERS' CIRCULAR PRICES

New List.
Flat Head Iron.....87½%
Round and Oval Head Iron.....85%
Flat Head Brass.....85%
Round and Oval Head Brass.....82½%
Flat Head Japanned.....82½%

SCYTHES.

Blood's.....$ 8 50
Clover..... 8 50
Grain Clipper, Blood's..... 10 50
Hollow Clip..... 8 50
Silver Clip 8 50
Honest Dutchman..... 8 50

SHEARS.

	7	8	9 in.
Best.....	$16.00	$18.00	$20.00 gro.
Good.....	12.00	15.00	17.00 gro.
Cheap....	5.00	6.00	7.00 gro.

Straight Trimmers, &c.:
Best Quality Jap.....70@70&10%
" Nickel.....60@60&10%
Fair qual. Jap..... 80@80&5%
" Nickel .....75@75&10%
Tailors' Shears.....40@40&10%
Acme Cast Shears.....40@40&5%
Heinisch's Tailors' Shears. 40@40&5%
Wilkinson's Hedge 50%
Wilkinson's Sheep.....1900 list, 50%

SHINGLES, METALLIC.

Eastlake I. C. Tin Shingles, painted, pr sq.....$4 25
Eastlake I. C. Tin Shingles, galvanized, pr square..... ..$6 00
Octagon Fluted I. C. Tin Shingles, painted, per square..$5 50
Octagon Fluted I. C. Tin Shingles, galvanized. pr sq....$7 25

SIFTERS.

Eclipse.....per gr $15 00
Hunter's Genuine.....per gr $16 00

SKATE SHARPENERS.

Skate Sharp., Eureka, per doz $2 00 net
Washer Cutters, Woodard's, per doz.....$2 50 net

SLATE.

GENUINE NO. 1 BANGOR.

24x14, 24x12, 12x 8	$3 50 pr sq.	20x10, 18x10, 18x 9, 16x 8	$4 50 pr sq
22x11, 20x12, 18x12, 16x12, 14x10, 14x 8, 14x 7	$3 75 per sq.	16x10, 16x 9	$4 25 pr sq
		12x 7, 12x 6	$3 25 pr sq

GENUINE NO. 1 BANGOR RIBBON.

24x14, 24x12	$3 00 pr sq.	20x10, 18x10, 18x 9, 16x10, 16x 8	$3 50 pr sq
22x11, 20x12, 14x 8, 14x 7	$3 25 pr sq.		

SNAPS.

German.....40@40&10%
Covert Mfg. Co.:
Derby.....35&2%
High Grade .....45@2%
Jockey.....40&2%
Trojan .....45&2%
Yankee.....35&2%
Yankee, Roller.....30&2%
Covert's Saddlery Works:
Banner.....60&10%
Crown.....60&10%
Model .....60&10%
Triumph .....60&10%
W. & E. T. Fitch Co.:
Bristol .....40&10%
Empire.....50&5%
German 40%
National .....50&5%
Perfect.....45%
Clipper.....50&5%
Champion.....40%
Security.....40%
Victor.....60&5%
Oneida Community:
Solid Steel.....65@65&10%
Solid Swivel.....65&10@65&10&10%
Sargent's Patent Guarded...66⅔&10%

SOLDERING FURNACES.

No. 3 Gems tin reservoir.....$6 00
No. 6 Gems copper reservoir..... 8 50
Gem Gas Pots..... 3 25
Clayton & Lambert No. 1 Fire-Pot 6 00
Clayton & Lambert's Special Fire-Pot..... 4 50

SPRINGS, DOOR.

Star (Coil) list Oct. '95.....net
Torrey's Rod 39 in. Per doz. .....$1 20@$1 25
Warner's No. 1.....net 75

SQUARES.

Steel and iron..... ..... 70&10%
Nickel plated..... 65, 10&5%
Try squares and bevels..... 65, 10&5%
Disston's..... 45%
Bemis and Call, pocket.....30%
Winterbottom's try & mitre..... 30%
Starrett's..... .....25%

STAPLES.

Barbed Blind .....per lb., 10c
Poultry Netting.....per lb., 5c

STAPLE PULLERS.

Russell Staple Pullers..per doz., $9 00

STOVE PUTTY.

1, 10 & 25 pound Cans.....per lb., 5c
500 pound Kegs.....per lb., 4½c

STROPS.

RAZOR.

Emerson.....60 to 60&5%
Imitation.....20, 10&5%
Torrey's.....20%
Tower & Lamont.....per doz $4 00
04 Combination.....per doz 3 75

TACKS.

List Jan. 15, '99.
Carpet Tacks, American.....90&40%
American Cut Tacks.....90&30%
Swedes Iron Tacks.....90&40%
Swedes Upholsterers' Tacks.....90&40&10%
Gimp Tacks .....90&40&10%
Lace Tacks .....90&40&10%
Trimmers' Tacks.....90&30%
Looking Glass Tacks .....70&10%
Bill Posters' and Railroad Tack90&40%
Hungarian Nails.....80&15%
Common and Patent Brads....80&10%
Trunk and Clout Nails.....80&10%

TRAPS.

GAME.

Oneida Pattern .....75&5@75&10&5%
Newhouse .....45@50%
Hawley & Norton.....65@5&70%
Victor (Oneida Pattern) .. 75@75&10%
Star (Blake Pattern) ....65&10@70&5%

MOUSE AND RAT.

Mouse, Wood, Choker, doz. holes .....8½@9c
Mouse, Round or Square Wire, doz.....$0.85@1.00
American Pattern French Rat and Mouse Traps—
No. 1, Detroit Marty Pattern, per doz. $4.50; in ½ gro. lots, per doz $4.00
No. 2, Detroit Marty Pattern, per doz, $3.25; in ½ gro. lots, per doz.....$3.00
Detroit Marty Pattern Mouse, per doz. $2.00; in ½ gro. lots, per doz.....$1.75
Diamond Joe Mouse Traps, per doz.....60c
Diamond Joe Rat Traps, per doz.$1.00
Marty French Rat and Mouse Traps. (Genuine:)

TWINE.

Flax Twine—

	BC	B
No. 9, ¼ and ½ lb. Balls...	20c	24c
No, 12, ¼ and ½ lb. Balls ...	17c	20c
No, 18, ¼ and ½ lb. Balls ...	14c	17c
No. 24, ¼ and ½ lb. Balls....	14c	17c
No. 36, ¼ and ½ lb. Balls...	13c	16c

Chalk Line, Cotton, ½ lb. Balls18@20c
Cotton Wrap., 5 lb. Balls to lb 16 to 20c
3-Ply Hemp, 1½ lb. Balls (Spring Twine) .....12@15c
3-Ply Hemp, 1 lb. Balls.....12@15c
3-Ply Hemp, 1½ lb. Balls .....
2, 3, 4 and 5-Ply Jute, ½ lb. Balls....8c
Mason Line Linen, ½ lb. Balls 45c
No. 264 Mattress, ¼ and ½ lb. Balls 34c
Wool.....5½@6c

VISES.

Solid boxes.....40%
Parker's.....20%
Howard's.....35%
Bonney's.....35%
Trenton.....40%
Stearns'.....50%
Cheney's.....12½%
Massey's.....25%
Parallel.....30&5%
Holland's.....35%
Stevens'.....25%
Miller's Falls.....40%
Prentiss.....20%
No. 1, Rat each $1.12½; per doz. $12.00
No. 3, Rat, per doz. $6.00; case of 50.....$5.25 doz.
No. 3½, Rat, per doz $4.75; case of 72.....$4 25 doz.
No. 4, Mouse, per doz. $3.50; case of 72.....$2.75 doz.
No. 5, Mouse, per doz. $2.75, case of 72.....$2.25 doz.
Schuyler's Rat Killer, No. 1, per gro. $30.00; No. 2, per gro. $30.00; Mouse, No. 3, $18.00.....50%

FLY.

Balloon, Globe or Acme..... doz. $1.15@1.25; gro. ... $10.50@11.00
Harper, Champion or Paragon.... doz. $1.25@1.40; gro....$12.00@12.50

TROWELS.

Disston Brick and Pointing 30%
Disston Plastering.....25%
Disston "Standard Brand" and Garden Trowels.....40%
Never-Break Steel Garden Trowels.....gro. $7.00
Peace's Plastering.....30%
Rose Brick and Plastering.....25&5%
Woodrough & McParlin Pl'st'ring.

WASHERS.

LEATHER, AXLE—

Solid.....80&10&10@85%
Patent.....85&10@85&20%
Coil: ⅜ 11c, 1 12c, 1⅛ 13c, 1¼ inch. 15c per 100

IRON OR STEEL.

Size bolt 5-16 ⅜ ½ ⅝ ¾
Washers $5.20 $4 30 $3.00 $2.30 $2.60
In lots less than one keg add ¼c per lb; 5-lb boxes add ½c to list.

CAST WASHERS.

Over ½ inch, barrel lots per lb .....1⅛@1¼c

WELL WHEELS.

8-in., $2.20.....10-in., $2.60
12-in., $3.25.....14-in., $3.25

WIRE AND WIRE GOODS.

Brt. and Ann., 6 to 9, 70&10@70&10&5%
Brt. and Ann., 10 to 18, 72½@72½&10%
Brt. and Ann., 19 to 26, 75&7½@75&10%
Brt. and Ann., 27 to 36.....75&10&5@75&10&7½%
Cop'd and Galv., 6 to 9, ...70@70&10%
Cop'd and Galv., 10 to 18,..... 70&10@70&10&5%
Cop'd and Galv., 19 to 26..... 75&7½@75&10%
Cop'd and Galv., 27 to 36,..... 75&10@75&10&5%
Tinned, 6 to 14.....75@75&5%
Tinned, 15 to 18 ....70&5@70&10%
Tinned. 19 to 26..... .....70@70&5%
Tinned, 27 to 36.....65&10@70%
Annealed Wire on Spools..... 70&5@70&10%
Brass and Copper Wire on Spools.....60&5@60&10%
Brass, list Feb. 26, '96.....25%
Copper, list Feb. 26, '96.....15%
Cast Steel Wire.....50%
Stubs' Steel Wire, $6.00 to £.....40%

BRIGHT WIRE GOODS.

List April 1, 1901.....85@85&10%

WIRE CLOTH AND NETTING.

Galvanized Wire Netting....85@85&5
Ptd Screen Cloth per 100 ft $1.00@$1
Light Hardware Grade:
2-8 Mesh, Plain (8c list) sq ft....1⅛c
2-8 Mesh, Galv. (8c list) sq ft....2⅛c

WRENCHES.

Agricultural.....70&10%
Case lots.....75&10%
Acme.....60&5%
Baxter's S.....60&10%
Bull Dog.....70%
Coe's Genuine.....40&10&5%
Coe's "Mechanic's"..40&10&10&5&5%
Alligator.....60&10&10%
Bemis & Call's:
Adjustable S.....35&5%
Adjustable S Pipe.....40%
Briggs' Pattern.....30&10%
Combination Black.....40&5%
Combination Bright.....40%
Cylinder or Gas Pipe.....55%
Extra Heavy.....45%
Merrick's Pattern.....50%
No. 3 Pipe, Bright.....55%
Bindley Automatic.....30%
Boardman's.....32½%
Donohue's Engineer.....40&10%
Eagle.....50&10%
Gem Pocket.....30%
Hercules.....70%
Knife Handle, Machinists' (W & B.):
0&10%
Case lots.....50&5%
Less than case lots.....5%
Improved Pipe (W. & B.).....50&10
Solid Handles, P. S. & W.....&10 &
Stevenson..... 5%

Wants and Sales.

For yearly subscribers to THE AMERICAN ARTISAN will be inserted under this head advertisements of six lines WITHOUT CHARGE, for employers wishing to secure employes, persons seeking situations, parties desiring to purchase a business, businesses for sale, partners wanted, to exchange, etc. Those who respond to these announcements will please mention that they read the advertisement in THE AMERICAN ARTISAN.

BUSINESS CHANCES.

PATENTS.—H. W. T. JENNER, Patent attorney and mechanical expert, 608 F street, Washington, D. C. Established 1863. I make an examination free of charge and report if a patent can be had and exactly how much it will cost. Send for circular. Member of Patent Law Association.

PATENTS HUBERT E. PECK, 623 F St., N. W. Washington, D. C. Consulting Expert in Patent Causes, U.S. and Foreign Patents. Send for leaflet on "Rejected Patent Applications." Honest work but no "Something for Nothing" offers.

For Sale—Stock of hardware and furniture in a live county seat and R. R. Division town in western Nebraska. Doing a good business. The only new furniture stock in town. Address "Furniture," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 9

For Sale—Elegant tin, sheet iron and furnace shop; best opening on the west side for good tinner; no competitors. Price $450. Reasons for selling. Address "Box H," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 9

For Sale—A well established hardware business. Good country and doing good business. Stock about $2,500. Real estate $1,800. Good reason for selling. Location central Wisconsin. Address "S 3," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 8

For Sale—Hardware stock and implements, invoice $6,000.00, located in one of the best farming communities in Illinois. This is a clean, up-to-date stock. Address Box 446, Dwight, Ill. 8

For Sale—One 36-in. Star Peerless Bar Folder; One 36-in. Star Empire Squaring Shears. Both brand new, 50% off list, $2.50 allowed for freight. For particulars address C. D. Cowgill, 304 So. 6th St., Terre Haute, Ind. 8

For Sale or Trade—A good brick two story building in a lively Ill. town that will rent at once for $25 per month. I will take good western land or a stock of hardware or Buggies and farm wagons. Address, Bargain, care AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 8

Wanted—A good location for hardware store, or buy a small stock in a good lively town in Minnesota or Dakotas. Address, Lock Box 70, Stewartville, Minn. 8

Wanted—To exchange Michigan farm for country hardware. Address, Box 38, Fayette, Ohio. 8

FOR SALE—A good clean stock of Hardware, Stoves, Tinware and Building for Sale or Rent, in a good location in the City of Milwaukee. For full particulars call on or address Wm. Frankfurth Hardware Co., Milwaukee, Wis. 8

For Sale—Our hardware stock. Worth $4,000. Best location in the city and one of the best cities in the state. Crops in surrounding territory never better than they are this year. Nothing the matter with us or our business—we simply want to quit. Cash or good paper. Rodney Sacket & Co., Berlin, Green Lake County, Wis. 6

Wanted—A partner with $500 in a general store. One who in a tinner preferred. A good chance for one with a small capital. Address "X. Y. Z.," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 6

For Sale—Clean stock of hardware, stoves; tin shop, buggies and implements in connection; located in one of the best farming counties in Illinois. Stock will invoice about $3,500. Cheap rent, best location in town; one other hardware store in town. Population about 1,200. Cheese factories, good schools, four churches, etc. Here is a good chance or you, who mean business. Reason for selling—going onto my farm. Address "Farmer," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 6

For Sale—Clean stock of hardware and harness in north-western Iowa; also, best corner building n town, large territory. Splendid opening to run mplement in connection. Address "Implements," are of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 6

For Sale—Our hardware business. Hardware, stoves and tinware; tinshop in connection. Good own, good business. Stock about $4,000. Can be reduced. Will tell you why we want to sell on application. Address P. A. Williams & Co., Strawberry Point, Ia. 6

Wanted—A small stock of hardware. Invoice about $2,000. In a new, growing town. Address, with particulars, Fred G. Schadegg, Prescott, Wis. 6

Wanted—A good location in a small growing town for a good shop. Would like shop in connection with a good hardware store. Can any of he readers of THE ARTISAN tell me of such a place. If so, kindly address Box 537, Bedford, O. 5

For Sale—Half interest in hardware stock of about $1,500, in southern Minn. Good opening. It will pay you to investigate. Reasons for selling. Address "O K," care AMERICAN ARTISAN, Chicago, Ill. 8

TINNERS' TOOLS.

For Sale—A pair of P. S. & W. 30 inch shears and one P. S. & W. 30 inch tin folder. Box 21, Marengo, Ill. 9

For Sale—A stock of tinners' tools, in good condition. Crafts & Montgomery, Wahpeton, N. Dak. 9

For Sale—Set of tinners' tools, square shears included, cheap for cash. List and price on application. Box 332, Edgerton, Wis. 5

For Sale—One Shepard's back-geared, screw cutting, foot-power lathe 18 in. x 60 in., with gap and milling attachment, 3 and 4 jaw chucks and lots of tools, used very little; not a scratch on it; cost $265, will sell for $200. Write for better description to C. A. Bergh, Mondovi, Wis. 5

Set of tinners' tools for sale cheap, in good condition. Send for list. Joe G. Harris, Box 33, Decatur, Adams Co., Ind.

HELP WANTED.

Wanted—First-class tinner who understands pumps and furnace work, and is accustomed to clerk in store. Must be temperate. Steady work, good pay. Colby Mercantile Co., Hamilton, Mo. 9

I want a good first-class tinner to take my place in the shop at once. Must be a good all-around tinner. State time you have been at the trade and give reference. Address Bay Bros., or write me. Good place to work and good wages. B. B. Morrison, 317 South Stee St., Belvidere, Ill. 9

Wanted—An experienced hardware clerk, one not afraid of work, and who can speak German. D. H. Stinson, Kendallsville, Ind. 9

Wanted—Mounting shop foreman; have a good position for thoroughly competent man. Thos. Hamilton, Sup't, Joliet Stove Works, Joliet, Ill. 9

Wanted—A high-grade traveling salesman to sell furnaces as a side line on commission. The Forest City Foundry & Mfg. Co., Cleveland, O. 9

Wanted—Salesmen to sell mitres and gutter ends to the jobbing trade only. Good commission. Address Central Mitre Co., 2115 N. Senate Ave., Indianapolis, Ind. 9

Tinner Wanted—Steady employment to hustling young man. Must bring reference. Wes- & Markham, 803 120th St., Chicago, Ill. 9

Wanted—At once; two first-class cornice men and tinners. Steady work. "Booze fighters" need not apply. E. H. Groves, Mgr., 1913 Broadway, Mattoon, Ill. 9

Wanted—At once; a first-class tinner, good on job work; also furnace work. Wages $2.50 per day. Address, W. M. Forward Co., Sycamore, Ill. 9

Tinner Wanted—A good No. 1 tinner; to do furnace work, all kinds of tin work and pump repairing. Only first-class, sober workman need apply. M. Reinhardt's Sons, Lincoln, Ill. 9

Wanted—A good all-around tinner, with some experience in machinery. Give reference and state wages wanted. Address P. O. B. 58, Lake Park, Iowa. Steady job the year round. 9

Wanted—At once: Tinner who understands hot air furnace work and general jobbing. State experience and wages expected for steady job, for the right man. E. M. Shoupe, Fremont, O. 8

Wanted—Skandinavian clerk that is thoroughly posted in hardware business, a good stock keeper and not afraid of work. State references, experience had, salary wanted, steady employment to right party. Barnes & Nuss Co., Grand Forks, N. D. 8

Wanted—At once, tinner, slater, plumber, must be first-class workman, sober and industrious. Good wages to right man or state wages wanted. Address G. H. Blattner, Vermillion, O. 8

Wanted—Three high-grade stove salesmen for 1902 to represent first-class stove house in Ill., Ia., and Minn. None but good salesmen need apply. Address "High Grade," care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 8

Wanted—At once, a first-class tinner, an all-round hustler; a furnace man. Steady job. Address W. W. Wheeler, Harlan, Iowa. 8

Wanted—At once. A tinner, one who can do any thing that comes in a tin shop; no pumps or wind mills. State wages. Last two men have been with me five years. W. S. Davis, Stewartville, Minn. 8

Wanted—Two first class die makers, familiar with making dies for stamped ware. Also two first class machinists. Address, The Lisk Man'f'g Co., Ltd., Canandaigua, N. Y. 8

Wanted—A good experienced, steady Tinner. To one willing and capable of doing all work on Stoves, Pumps and Bicycle Repairing we can give steady employment. One who speaks German preferred; must have man by Sept. 1st. Casselton Hardware Co., Casselton, N. D. 8

Wanted—A good sober, all-around tinner, that has had experience in furnace work, hot water and steam heating. A German, marrried man preferred. State wages. Address Geo. H. Bruns, Lake Mills, Wis. 7

Wanted—Experienced stove mounter. Bonnet-Nance Stove Co., Chicago Heights, Ill. 7

Wanted—A good inside and outside tinner, understanding galvanized iron roofing, guttering and spouting. Western man preferred. M. J. Williams, Baton Rouge, la. 7

Wanted—A tinner and clerk. A good man. A steady job, good wages. Must be sober. Would like him to speak German. Thos. Rawlings, Wakefield, Neb. 7

Wanted—Buyer for large, wholesale hardware house. Must have experience in line throughout. Please apply, stating experience, age and salary desired to "Wholesale Hardware," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 7

Wanted—At once: a first-class tinner who understands hot air and steam furnace work, and has a fair knowledge of plumbing. Must not necessarily be a man that can wipe a joint. Must be temperate. Will pay good wages and guarantee steady employment. Address, stating age, experience and salary required, The J. C. Lewis Co., Antigo, Wis. 7

Wanted—Two first-class tinners. J. L. Clark Hdw. Co., Rockford, Ill. 7

Wanted—At once; a first-class clerk who can speak German; must be sober and reliable. Good wages. McDonald Bros., Madison, S. D. 6

Wanted—Tinner who can speak German. Steady work in good Minnesota town for sober man. Address "Town," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 6

Wanted—An all-around tinner. Steady work for the right man. Herman Soehner, Dayton, O. 6

Wanted—At once; A reliable, sober tinner that understands furnace work and plumbing. Steady work and good wages. Address H. D. A. Grebe, Barrington, Ill. 6

Wanted—A1 plumber, tinner and bicycle man. Must be first class workman, sober and industrious. Good wages to right man. Address U. G. Fowler & Co., Huron, S. D. 5

SITUATIONS WANTED.

Situation Wanted—As salesman in hardware where it requires a man of ability and experience. Have had 15 years of actual experience. Can keep books and do shipping. Would prefer a country town. Address "W. H.," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 9

Wanted—Situation as clerk in a hardware store. Have had some experience in tinning. Age 19 years. G. J. Sturm, Flora, Ill. 9

Wanted—Situation, by practical sheet metal worker, 12 years' experience; hardware store preferred. Must be a steady situation, in the city of Chicago only. Address "Steady," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 9

Situation Wanted—Traveling salesman visiting the jobbing trade and large dealers only, wants a situation, side line or otherwise. Address Salesman, care of Central Mitre Co., 2115 N. Senate Ave., Indianapolis, Ind. 9

Situation Wanted—As clerk, tinner, stove man, window trimmer, a general all-round hardware man, a hustler, recognizing no "dull seasons;" young, sober and single; write anyhow. Chas. Hahn, Butte, Mont. 8

Wanted Situation—I have had 15 years' experience in a hardware store, six years' in the newspaper business; was post master three years of the time. I want a situation in a hardware store; can do some work at the bench. Best of references. Address, Box 280. Dexter, Minn. 8

Wanted—Situation by German-American man of 19 as tinner. Common in and outside work. Can repair bicycles, gasoline stoves, etc. Have had 3 years' experience. No bad habits. Address E. W. Ebert, Farmersburg, Ia. 7

Wanted Situation—By a young man, 19 years old, in shop to learn furnace heating and plumbing. Have had 3 years' experience in store and tin shop. Can do ordinary repairing. Am strictly temperate. State wages willing to give. Address Lock Box 31, Brooklyn, Wis. 7

Wanted—Position with some good paying hardware; by German tinner with 20 years of experience. Could take charge of stock. With view of buying interest, or whole if suited. Give amount of business you do, size of stock and town, class of people, etc. Address Tinner, Sibley, Ia. 7

Wanted—A steady job as tinner, clerk, or both. Twelve years' experience. Good references. Would like a job in the west. Address A. W. G., care of P. O. Box 896, Moscow, Idaho. 6

Wanted—A position as tinner at once. Am German-American, age 23. Have had 4 years of experience at in and outside work. Can do furnace work and also repair bicycles. Can furnish good references. Address P. O. Box 131, Lakefield, Minn. 6

Wanted—Situation as salesman for good wholesale or retail hardware firm; have had experience with all kinds of farming implements. Can give best of references. Address "H. R.," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 6

Wanted—Situation as salesman in a hardware store by a young German-American with ten years' experience. Know the tinners' trade and can keep books. No objections to going on the road. Position must be in a western state. Address P. O. Box 114, Northfield, Minn. 6

SPECIAL NOTICES.

WANTED.

A position as superintendent of manufacturing plant making general line of hardware and electro plated wares. Have had 15 years' experience with one of the largest plants in the United States. Address,

"Wilmington,"

care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 9

WANTED

Permanent situation by an experienced stove manufacturer, as superintendent or manager. Good character. Steady habits and competent. Address,

"Superior,"

care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill.

HARDWARE BUSINESS FOR SALE.

Doing retail-wholesale business. Daily sales $110 to $160. Will arrange special terms with right party for purchase within next thirty days. Address **"Hardware,"** care THE AMERICAN ARTISAN, 69 Dearborn St., Chicago Ill.

WANTED.

Position as an assistant cutter; by a tinner with 20 years' experience. Steady and reliable. Best of references. Would prefer position in or near Chicago. Address,

"Cutter,"

care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 7

YOUNG MAN

With good connections in British Isles and Continental Europe wishes agencies for a few lines of American manufacture. Prompt attention. References. Address

MONTAGUE,
39 Paradise Street,
Liverpool, Eng.

SPECIAL NOTICES.

A YOUNG SUCCESSFUL FACTORY MANAGER,

Familiar with designing and construction of gas stoves and appliances, who has also had entire charge of factory, buying and selling, desires a change of position. Is at present employed as manager of one of the best gas stove firms in the country. Can give best of references, and leave present position on thirty days' notice. Able to design and construct any style of gas stove or range desired. Address "STOVE MANAGER," care of THE AMERICAN ARTISAN, 69 Dearborn St., Chicago, Ill. 6

50 Hardware Ads...	50c
50 Bicycle Ads.....	50c
50 Furnace Ads.....	50c
50 Implement Ads..	50c
100 Steel Range Ads.	100c

Good Ads Pay.
These ads have been used by us and brought trade. Catchy headlines ready for printer. Stamps taken. Address, **H. P. Counley, Terre Haute, Ind.**

F. D. Burgess, Waupaca, Wis., writes:

"Please take out advertisement for Tinner, I have one in sight that I think I shall get. I have had all kinds of letters from men in this state, Ills., Iowa and Minnesota. I am running tin and plumbing shop here in connection with the Union Stove Co."

DIXON'S SILICA GRAPHITE PAINT

FOR TIN OR SHINGLE ROOFS AND IRON WORK. Tin roofs well painted have not required repainting for 10 to 15 years.
IT IS ABSOLUTELY WITHOUT AN EQUAL.
If you need any paint it will pay you to send for circular.
JOSEPH DIXON CRUCIBLE CO., Jersey City, N. J.

Books by Mail

The Publisher of the American Artisan will take pleasure in supplying Books of whatever character, at catalogue prices, prepaid by mail, to any address, on receipt of price. The following are lines specially represented:

Sheet Metal Working. The Foundry. The Workshop. Heating and Ventilating. Plumbing and Drainage. Bicycle Repairing. The Store and Office.

Daniel Stern,

Publisher and Bookseller,
69 Dearborn St. CHICAGO.

CUT THIS OUT.

To the Publishers THE AMERICAN ARTISAN,
69 Dearborn St., Chicago.

Please send us THE AMERICAN ARTISAN each week for three months. At the end of that time we will remit Two Dollars, for one year's subscription, or 50 cents in case we decide to discontinue.

NAME.....

ADDRESS.....

TOWN.....

STATE.....

AMBER VIOLIN OIL VARNISH

This Varnish is made from the best Italian Amber and is equal in depth, beauty of color and brilliancy to the famous old Cremona Varnish.

Buckeye Paint & Varnish Co., Toledo, O.

Champion Stove Clay

The only Stove Lining made of crucible materials.
Packed in 2½ lb., 6 lb., and 10 lb. pasteboard boxes and also in bulk.
Order it from your jobber.
The best and most refractory lining made.

BRIDGEPORT CRUCIBLE CO.
BRIDGEPORT, CONN.

Repairs For all Stoves
Great Western Stove Repair Co.
MINNEAPOLIS, MINN.

Stove, Range and Furnace **REPAIRS**
OF ALL KINDS.
American Stove Repair Works,
186-188 West Seventh Street, ST. PAUL, MINN.

REPAIRS FOR ALL **STOVES** AND **RANGES.**
A. G. Brauer, 316-318 North Third St., ST. LOUIS, MO.

To Stove Dealers
NOTICE.

Do you know that the new A-B dealers' stove polish is made dry and you can thin it as you wish. It is the cheapest, blackest, brightest and easiest polish to use—no dust—no rust—waterproof. Keeps in any climate. Put up in 5-lb. boxes—Patented. No tin cans to pay for. Mixes quicker than paste; no drying up, good always. Used by a great many stove manufacturers who are sending duplicate orders. Send for Free Sample and price list; it will save you money.

AYLING BROS.,
Sole Manufacturers and Patentees of A-B Stove Polish
Office and Works, 14 Haddon Ave.,
Address Department A. CHICAGO, ILL.

FOR **MICA**
Sheet, cut or uncut, Powdered and Flake
WRITE TO
ASHEVILLE MICA CO.
ASHEVILLE, N. C.

Why not remodel your Oaks and Oval air-tights so as to use cast-iron where you now use sheet steel? More attractive!
Planished and Sheet Steel will be scarce.
The Gobeille Pattern Co., Cleveland, O.

THE GEO. W. COPE
STOVE PATTERN WORKS,
Randolph and Atwater Sts.
DETROIT, MICH.

Experience. Correctness.
Acme Pattern Works
STOVE and HEATER
Patterns
AKRON, OHIO.
Promptness. Satisfaction.

Indianapolis Artistic Pattern Works,
Cor. Fenneman and Minnesota Sts.
INDIANAPOLIS, IND.
Perfect Work. Right Prices.
Special Stove and Furnace Patterns.

J. R. West, Gas City, Ind., writes: "Please discontinue ad. for Tinner, as I am overwhelmed with applicants, and have had a man at work some time."

REPAIRS FOR ALL STOVES

Pipe Dampers, Mica,
Stove Rods, Paste, Stove Putty,
Stove Knobs, Etc.

Wm. T. Dust Co.,
231 Brush St., DETROIT.

M. Brucker,

Manufacturer and Jobber of

Stove and Range Repairs.

FOUNDRY, OFFICE AND WAREROOMS
325 to 331 North Lincoln St.,
CHICAGO.

J. L. Morris Stove Repair Co.

Wholesale and Retail Dealers in

Stove and Range Repairs, Mica, Etc.

OFFICE AND WAREROOMS
29 and 31 Desplaines Street, Chicago.

Sole Western Agents for BURDETT, SMITH & CO., and other Manufacturers' Original Repairs.

MICA

ASSORTED PACKAGES.

Put up expressly for the Retail Trade.

ONE POUND—4 SIZES. ¼ lb. each size.

North Carolina -	$2.00	4½ x 6	2½ x 3
Wyoming - - -	1.70	2¾ x 3¼	2¾ x 4½

TWO POUND—8 SIZES. ¼ lb. each size.

North Carolina -	$3.75	2 x 3	2¾ x 4
		2 x 4	2¾ x 3½
Wyoming - - -	3.20	3 x 3	2½ x 4½
		3 x 4½	4½ x 6½

THREE POUND—12 SIZES. ¼ lb. each size.

		4½ x 5	2¾ x 4
North Carolina -	$5.20	¾ x 4½	2½ x 3½
		3 x 3	2 x 4
Wyoming - - -	4.25	2¾ x 4½	2¾ x 2¾
		2½ x 3	2¾ x 3½
		2 x 3	5 x 6½

ABOVE PRICES NET. NO DISCOUNT.

EUGENE MUNSELL & CO.,
218 Water St., NEW YORK and 117 Lake St., CHICAGO.

Huff & Mueller, Webster City, Ia., write: "Will you please discontinue our advertisement in the Want column. We have secured the man we wanted. Thanking you for this space and your trouble; we are more than ever convinced it pays to advertise."

SELECTED

MICA

ONLY

Prepared expressly for the Stove and Hardware Trade.

Two Grades: "North Carolina" and "Nevada."

Price Lists and Discounts Sent on Application.

The Palermo Mica Co.,
115 BEEKMAN ST., NEW YORK.

ORDER YOUR

Repairs for Stoves, Ranges and Furnaces

FROM

City Stove Repair Co.
CLEVELAND, OHIO.

We guarantee prompt and careful attention. Send for Order Slips.

The Brohard Damper Clip,

Easily Adjusted

The Clip being malleable iron, will not break in riveting.

Cost no more than all cast.

Sample free to introduce.

Write us.

The Brohard Co.
Phila., Pa.

U.S. INFALLIBLE METAL POLISH

IN PASTE, LIQUID OR POWDER

FOR ALL KINDS OF METALS

Best, Cheapest, Goes Farthest. Never dries up or shrinks. Money makers for everybody. Sold by the Jobbing trade. Sample free by mail.

Address

GEO. W. HOFFMAN, MFGR.,
295 E. Wash St., INDIANAPOLIS, IND.

BRANCHES: 1 Park Row, New York City; 119 E. Madison St., Chicago, Ill.; 503 Montgomery Avenue, San Francisco, Cal.
Established 12 years.

IF you wish your prosperity to be continuous make your advertising continuous. One begets the other.—The World.

The Imperial Lighting System

PATENTS PENDING.

Economical, brilliant, durable, reliable and simple to operate. A light equal to an electric arc at a very low cost.

The Imperial Lighting System is far superior to the Electric Arc, being softer, whiter and absolutely steady. From a tank the gasoline is conveyed throughout an entire building through a flexible copper tube that can be put through crevices, around corners and concealed the same as electric wires, and as many lights as may be desired can be supplied from the same tank. The Imperial System burns common stove gasoline, gives a 1,200 candle power light, and one gallon of gasoline burns 16 hours. All lamps are fully guaranteed, and are trimmed complete with full instruction as to installing and operating the system.

We also manufacture a complete line of Gravity and Air Pressure Lamps. Write for illustrated catalogue.

THE IMPERIAL GAS LAMP CO., Sole Manufacturers,
132-134 E. LAKE ST., CHICAGO, ILL., U. S. A.

Black Silk Stove Polish

is BLACKER

than Jumbo ever was

None so fine and none so good as the "Black Silk."

Manufactured by LEWIS D. WYNN, Sterling, Ill.

Jobbers and Dealers Write for Prices.

C&B LINE

Pan-American Route

Between CLEVELAND and BUFFALO.

STEAMERS CITY OF BUFFALO AND CITY OF ERIE.

Both together being without doubt, in all respects, the finest and fastest that are run in the interest of the traveling public in the United States.

TIME CARD—DAILY—APRIL 15th to DEC. 1st.

Leave Cleveland 8 p. m. Arrive Buffalo 6:30 a. m. | Leave Buffalo 8 p. m. Arrive Cleveland 6:30 a. m.

ADDITIONAL SERVICE DURING JULY AND AUGUST DAILY EXCEPT SUNDAY.

Leave Cleveland.....8:00 a. m. | Leave Buffalo.....8:00 a. m.
Arrive Buffalo.....6:00 p. m. | Arrive Cleveland.....6:00 p. m.
Leave Cleveland Tuesdays, Thursdays and Saturdays 5 p. m. Arrive Buffalo 5:30 a. m.
Leave Buffalo Mondays, Wednesdays and Fridays 5 p. m. Arrive Cleveland 5:30 a. m.

All Central Standard Time. Orchestra Accompanies Each Steamer.

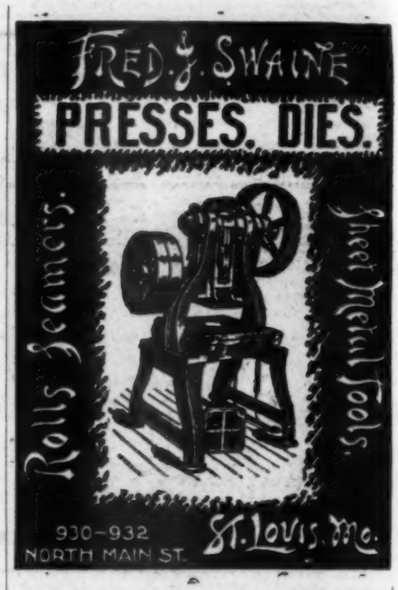
Connections made at Buffalo with trains for all Eastern and Canadian points, at Cleveland for Detroit and all points West and Southwest.

Ask ticket agents for tickets via C. & B. Line. Send four cents for illustrated pamphlet. SPECIAL LOW RATES CLEVELAND TO BUFFALO AND NIAGARA FALLS EVERY SATURDAY NIGHT, ALSO BUFFALO TO CLEVELAND.

W. F. HERMAN, General Passenger Agent, Cleveland, O.

M. Hosterman & Son, Marshfield, Wis., write--

"You may take our ad. out of THE ARTISAN as we have bought a kit of tools. We received 8 or 10 replies to the ad. and think your paper all right."



Bradner Smith & Co.

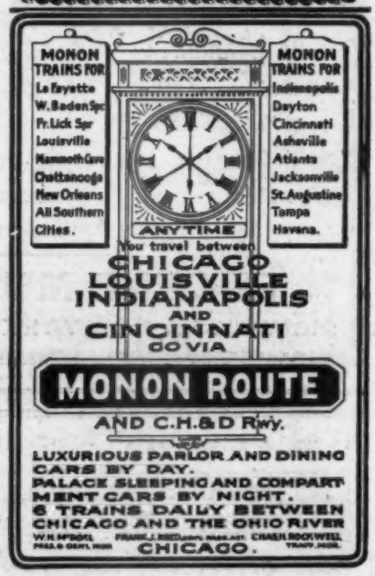
Paper Makers,

CHICAGO.

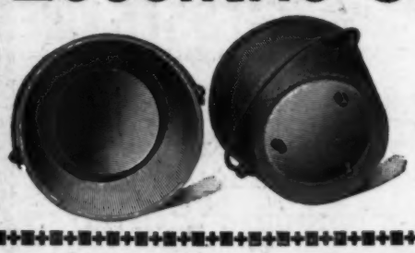
BUILDING,
WRAPPING,
WRITING,
NEWS,
BOOK

Paper

Send for Catalogue.



Eccentric Stove Kettles and Pots.



The peculiar construction of bottoms enables one to use these goods on either size hole designated by the number, say 6 and 7, a feature that is self recommending to all dealers. They can also be used on smaller top stoves by turning the narrow rims of bottoms together.

Blacklock Foundry,

South Pittsburg, Tenn.

THE ORIGINAL

BRAMMER Rotary Washer.

An especially well made and light running machine and GUARANTEED TO GIVE SATISFACTION.

A simple, powerful and durable movement. This very substantial tub is made from a select quality of Cypress lumber.

Made also in the detachable leg style, as well as square.

We manufacture the most complete and satisfactory line of Washers on the market. Send for illustrated catalogue.

BENBOW-BRAMMER MFG. CO.,

1007 N. 13th Street,

FACTORIES: St. Louis, Mo., Davenport, Ia. **ST. LOUIS, MO.**

THE Peerless Flue Stopper

Steel wire springs instead of sheet iron stays.

Stays where you put it, and is absolutely soot and smoke proof.

Made either plain or decorated.

Send for miniature sample and prices.

Welling Manufacturing Co.,

Columbus, O.

THE ORIGINAL

H. F. Brammer Mfg. Comp'y

(Incorporated 1888) DAVENPORT, IOWA.

MANUFACTURERS OF

The Original Improved Brammer Washer.
The Original O. I. C. Pendulum Washer.
The Original O K Rotary Ball Gearing Washer.

With Gold And Copper Bronzed Hoops And Castings.

WE LEAD. Others imitate. The superiority of our Washers is too well known, and dealers will not be misled by similar machines.

Quotations and particulars will be sent on request.

Send 10c. in Stamps for Free Sample of **"Solid-Steel" Lava Enameled Ware.**

The Cleveland Stamping and Tool Co., CLEVELAND, OHIO.

Charles Hahn, Red Lodge, Mon., writes: "Please discontinue ad of 'tools wanted.' Much obliged. Had a dozen offers."

Gee Whizz Washer

A Novelty and a Winner.

Does what it is intended and guaranteed to do.

Made without hoops or staves, will neither shrink, leak nor fall down. The labor saving washer of 20th Century. Our circular describes the reflex motion and tells why it whirls, rubs, slaps, squeezes and sucks the dirt out of the clothing.

You want the agency. Write for particulars to

RANDLEMAN & SONS, Des Moines, Iowa.

BIG FOUR ROUTE

Chicago to { **Indianapolis, Cincinnati, Louisville, the South and Southeast**

Peoria, St. Louis, Indianapolis, Cincinnati, Louisville } To **New York** AND **The East**

W. P. DEPPE, A. G. P. & T. A. — **W. J. LYNCH,** G. P. & T. A.

CINCINNATI.

J. C. TUCKER, G. N. A., 234 Clark St., Chicago

The Southern Railway

and

The Mobile and Ohio Railroad

through its Land and Industrial Department invite prospectors, investors, manufacturers and homeseekers to investigate propositions in all lines.

Come and see what splendid opportunities the South affords. Reading matter, maps and detailed information sent free upon application to

M. V. RICHARDS, Land and Industrial Agent, Washington, D. C.

W. L. HENDERSON, Agent, Land and Industrial Dept., St. Louis, Mo.

J. F. OLSEN, Agent, Land and Industrial Dept. 225 Dearborn St., Chicago.

"Well Bought is Half Sold."

No business proverb could be truer than this one. The hardware dealer comes out on top who gets up-to-date goods suitable to his locality at attractive prices. The Fall Season will soon be here and dealers should stock up. No western hardware *entrepot* can compare with ours. We have the goods—the latest and best. We are in a position to make better prices than our competitors. We can give the dealer unequaled shipping facilities on all orders. We number among our patrons today the leading and most prosperous hardware dealers in Nebraska, Iowa, Missouri, Kansas, Minnesota, The Dakotas, Colorado, Wyoming, Idaho and Montana. We could not hold this trade the way we do if we were not in a position to give them better service than our competitors. If you are not on our list for trade literature kindly send in your name.

Lee-Glass-Andreesen Hardware Co.,
OMAHA, NEB.

Peters Cartridges Peters Cartridges

Peters Cartridges

LOADED WITH KING'S SEMI-SMOKELESS POWDER

Hold the World's Records. A FULL LINE OF THIS AMMUNITION FOR RIFLE, REVOLVER AND PISTOL.

AMMUNITION OF TO-DAY.

A FEW OF MANY RECENT VICTORIES — WON

- Indoor Rifle Championship for United States, **1898, 1899, 1900, 1901.**
- Interstate Rifle Match, Sea Girt, N. J., 1900.
- Interstate Regimental Team Match, Sea Girt, N. J., 1900.
- Alicomers' Military Match, 1900.
- New Jersey Rifle Ass'n Trophy Match, 1900.
- Winchester Match, Sea Girt, N. J., 1900.
- Revolver Reentry Match and Revolver Team Match, Sea Girt, N. J., 1900.

Ammunition Loaded With King's Semi-Smokeless Powder,

MADE HIGHEST SCORES IN International Revolver Match, (America vs. France), 1900. Won the Wimbledon Cup Match (80 shots at 1000 yards), 1900. The Rifle Championship for Greater New York and vicinity (100 shots at 200 yards), 1899-1900.

The above wonderful records tell the whole story of unequaled accuracy, velocity, trajectory and uniformity. **THESE CARTRIDGES NEVER DETERIORATE.** They shoot with little noise and slight smoke, and can be used for a day at a time without the necessity of cleaning the gun. **Peters Cartridges** have been tested, and are now **USED BY THE WORLD'S EXPERTS.**

Handy Book for Shooters and Sportsmen sent free to all applicants.

The Peters Cartridge Co.,
Government Square, Cincinnati, Ohio.
EASTERN BRANCH: T. H. KELLER, Manager, 80 Chambers Street, NEW YORK.

Peters Cartridges Peters Cartridges

Lackawanna Railroad

The Scenic Line TO New York City

Palatial Solid Vestibuled Trains
Superb Dining Cars
(Meals a la Carte)
Observation Cars **Latest Pullmans**
Elegant Day Coaches

3 THROUGH TRAINS DAILY from CHICAGO 3

Leaving Chicago	Arriving New York
10.35 a. m.	3.35 p. m. next day.
2.30 p. m.	7.30 p. m. next day.
10.30 p. m.	7.10 a. m. 2d day.

Rates $18.00 First Class, $16.00 Second Class

CITY TICKET OFFICE: 103 Adams Street
GEO. A. CULLEN, Gen'l West'n Pass. Agt.
CHICAGO

O. C. Jamison, Homer, Ill., writes: "I FIND MY ADS. IN YOUR ESTIMABLE JOURNAL HAVE BROUGHT GOOD RETURNS."

Not in the Trust.

No Connection with any other Rogers Company.

We guarantee our Plated Ware to strip as much silver as any Rogers Brand on the Market. New Patterns, Highest Grade of Plate.

The Simeon L. & George H. Rogers Co.

P. O. Box 1205 Hartford, Conn.

FACTORIES:—Hartford and Wallingford, Conn.

Brilliant Enameled Steel Ware

This ware is now manufactured by our factory at Bellaire in the Brown Color only, same having been discontinued in all colors by our Portland, Conn. factory. Particular effort is being made to turn out a highly satisfactory and pleasing article, and all dealers are requested to order a sample lot to be convinced of the merit of this ware.

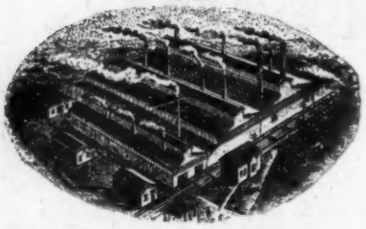
White and White Enameled Steel Ware

This ware will also be made by our Bellaire Factory only hereafter having been discontinued by the Portland Factory. A large line of hospital goods made in this ware Recommended where sanitary qualities are essential.

National Enameling & Stamping Co.

BRANCH OFFICES New York Baltimore Chicago St. Louis Milwaukee ADDRESS OFFICE NEAREST YOUR LOCATION

Trade AGATE NICKEL-STEEL-WARE Mark. L & G Mfg. Co.



Rolling Mills, Harrisburg, Pa.

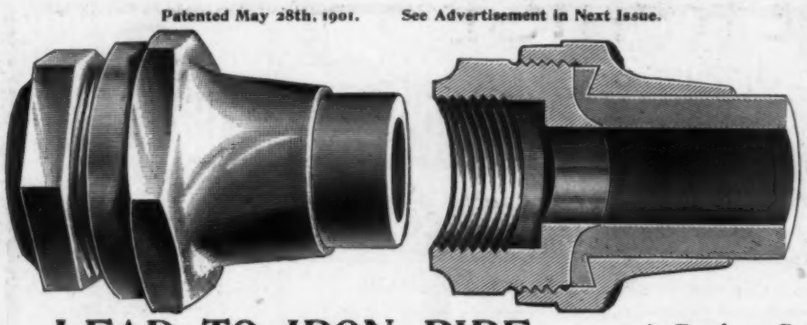
Factories: Woodhaven, Borough of Queens, New York City, N. Y.

The Largest Plant on earth for manufacturing enameled and sheet metal wares. The home of the **"Agate Nickel-Steel," "Pearl Agate," "Peerless"** and **"Blue and White" Wares,** and the celebrated **"L. & G." Steel Sinks, Plain and Retinned, Shallow and Deep Stamped, Japanned and Pieced Tinwares, Spoons, Milk Cans, Etc.**

Lalance & Grosjean Mfg. Co.

MAIN OFFICE:	WESTERN BRANCH:	EASTERN BRANCH:
19 & 21 Cliff Street,	81-83 Michigan Ave.,	83-91 North Street,
NEW YORK.	CHICAGO.	BOSTON.

Patented May 28th, 1901. See Advertisement in Next Issue.



Novelty Couplings

Lead to Lead and Lead to Iron or Copper.

LEAD TO IRON PIPE. A Perfect Substitute for Wiped Joints.

Water Back, Faucet, Boiler Couplings, Etc.

SEND FOR COMPLETE CATALOGUE

The New Haven Novelty Machine Co., New Haven, Conn., U.S.A.

SPERRY'S SUGAR KETTLES.

Light, smooth, full measure and guaranteed perfect. Made from original patterns. Metal, the right kind in the right place. Ask your Jobber for them or write us.

D. R. SPERRY & CO.,
HOLLOW-WARE FOUNDERS,
BATAVIA, ILL.

Heating and Ventilating Buildings.

BY R. C. CARPENTER.

Price, $3.00

For Sale by . . . .

Daniel Stern,
69 Dearborn St. CHICAGO.

WHEN IN AN ARGUMENT ON QUALITY REFER TO THE **GREEN BOOK** OF HARDWARE SPECIALTIES AND YOU WILL ALWAYS BE RIGHT.

THOMSON BROS. & CO.

SMITH & HEMENWAY CO. UTICA DROP FORGE & TOOL CO.

296 Broadway, NEW YORK CITY.

Our No. 9472. Ask your dealer for these goods.

Stanley Rule and Level Co.

IMPROVED CARPENTERS' TOOLS Sold by All Hardware Dealers

NEW BRITAIN, CONN.

THE "DISSTON SAW" WILL DO MORE WORK WITH LESS EXERTION AND HOLD ITS CUTTING EDGE LONGER THAN ANY OTHER BRAND OF SAW.

Fully Warranted as to Material and Manufacture.

Henry Disston & Sons, Inc.,

Keystone Saw Tool Steel & File Works.

Philadelphia, Penna.

For Additional Information Send a Postal For Our Pamphlet "Practical Hints To Mechanics."

"ENTERPRISE"

Fruit, Wine and Jelly PRESS

Extracts *the* Juice *and* Ejects *the* Skins *and* Seeds in one operation

No. 34, $3.00

Descriptive Catalogue mailed Free — Order through your Jobber

Meat Juice Extractor

No. 21, $2.50

Ice Shredders

		per doz.
No. 33,	Tinned	$6.00
No. 34,	Nickeled	15.00

The Enterprise Manufacturing Co. of Pa., Philadelphia, Pa., U. S. A.

PLECKER'S CORRUGATED EXPANDING CONDUCTORS.

Made of Galvanized Iron in Ten-Foot Lengths without a Cross Seam. Will not burst when full of ice.

Clark, Quien & Morse, - Peoria, Ill.

L. B. HOOKER, Sturgis, Mich., writes:

"Your paper is a grand success. I believe no tinner or plumber should do without it. I try to keep up with the times and the only way is to find out what other shops are doing, and the way to do that is to take The American Artisan."

The Mrs. Van Deusen Egg Whip.

It is made from a solid piece of tin and has a degree of strength and stability not found in the wire beaters.

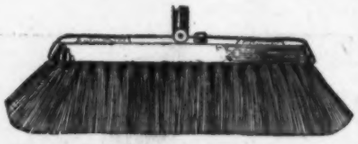
The grooved feature adds 25 per cent. to its effectiveness and many times that amount to its durability, making it the most thorough, expeditious and durable whip ever produced.

C. A. CHAPMAN,

Manufacturer of House-Furnishing Specialties,

270 EXCHANGE ST., GENEVA, N. Y.

An Agency in your town



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SANITARY DUSTLESS FLOOR BRUSH

The World's Only gathers the dust without raising it, kills the disease germs, if there are any, sweeps quicker, better, cleaner than by any other method. Write for our circular.

122 Sycamore St. **Milwaukee Dustless Brush Co., Milwaukee, Wis.**

A Special Hardware Wagon.

Low Down.
Short Turn.
High Wheels.
Saves the Heavy Lifting.
Makes Quick Delivery.
For Prices, Terms, &c., Address,

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Marion,	Monarch,	Standard,
Duchess,	Beacon,	Perpetual,
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They are all that the word implies; attractive, and built to stand hard usage. The rolls are rubber—good rubber. The best consistent with the requirements.

As An Eye Catcher For Trade,

Our method of decorating the trimmings of the better grades is hard to beat.

WE HAVE A LIBERAL PROPOSITION TO MAKE FOR YOUR FALL ORDERS.

National Sweeper Company,

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We Make Carpet Sweepers Too.

C. R. SIPES, Arkansas City, Ark., writes: "We could hardly keep house without The American Artisan."

The No. 1 Fire Pot

Has stood at the head of our line **For fourteen years,** and is today leading all other makes, making new friends everywhere, saving the users its cost in the saving of gasoline alone, and having many advantages which make it

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The acknowledged King of Fire Pots. Are you using the No. 1? Our catalogue is free. **It's worth dollars to you** and tells all about Fire Pots and Torches.

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Just a Little Higher

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HIGHER IN QUALITY

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Caldwell Sash Balances

They can recommend them with clear conscience. Write for catalog.

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A Gas Stove Retailing for 25c.

With liberal discount to the trade.

Simple! Useful! Durable.

Always ready for heating water, milk, tea, curling irons, etc.

Can be transferred from one room to another.

Handsome and very profitable to the trade. Base and top grate cast-iron (coppered); body corrugated tin; wire gauze at top and an automatic mixer in base requiring no adjustment.

Place the stove over an ordinary gas burner and light on top of wire gauze.

Will not black or smoke.

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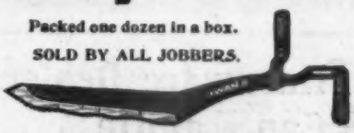
WITH WAVING EDGE.

Adjustable Handles, Wood or Iron Grips. Cuts hay or straw faster and easier than any other knife on the market, and **keeps sharp longer.**

Packed one dozen in a box.
SOLD BY ALL JOBBERS.



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Chain of all Kinds.
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CUT OF STOVE OPEN. CUT OF STOVE CLOSED.

The Only Folding, Portable Gasolene Vapor Stove Made.

A marvel of compactness and design.

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Contains a bargain list of merchandise bought by us at

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Write for it to-day.

Chicago House Wrecking Co.,

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writes:

At present I am not in the Hardware business, but feel that I cannot afford to be without THE AMERICAN ARTISAN. It is a most valuable paper.

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METAL CEILINGS
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We Make Them.
Also
Cornice, Skylights,
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Hardware Dealers
Can Handle
Northrop's Stamped
Steel Ceilings

and do well for their customers and themselves. Send for catalogue—give diagram and description of room for an estimate and we will do the rest.

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"Sampson Brand" Pure Asphalt Roofing.
Never Dries Out or Cracks.
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STANDARD FOR QUALITY. (Lake Superior Copper.)
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We carry a large stock and assortment of guaranteed Bright and Roofing Plates
SOLDER—Commercial and Strictly (warranted) Half and Half.
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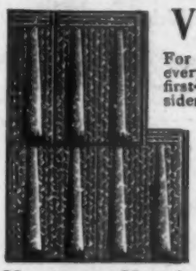
THE QUICK SHIPPERS.



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For public buildings of every character where first-class roofing is a consideration, our galvanized
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Deeply embossed.
Presents attractive appearance.
Telescope Side Lock.
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The "Centennial" Rain-Water Cut-Off.

The strongest, most durable and cheapest CUT-OFF on the market.
The only single Cut-off made to fit CORRUGATED and Plain Pipe and which can be used without extra pipe or elbows. For sale by all leading jobbers.
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WE CAN BRING TRADE TO YOUR DOOR

TRADE that will return if we can succeed in placing our line of Steel Ceilings, Side Walls, Conductor Pipe, Fire Proof Doors and Shutters and Skylights with you.

Our product satisfies. It is a pleasure to sell it. Write us for prices and catalog of designs.

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IRON ROOFINGS.
SKYLIGHTS,
CORNICES,
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The Perfection Rain-Water Cut-off

EXCELS ALL OTHERS IN

SIMPLICITY—STRENGTH—DURABILITY

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Successors to W. A. Smith & Co, Patentees, Lima, O.

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Only the very best leather and rubber are used in these goods and all are carefully and evenly fitted, making them the best of their kind.

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"I have all of your Manuals up to date, and they make quite a nice encyclopedia, and I often refer to them. They are certainly a great help, and should be of especial use for the younger class that are trying to become good machinists."

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Here is an object lesson in artistic metal ceilings.

It shows one of the combinations of our Gothic design.

Gothic Style, of course, isn't as elaborate as some other styles we manufacture, but it has a dignity and forceful simplicity which makes it a favorite for church decoration and similar work.

First of all, you will notice it combines the effect of plastic relief, with the mechanical excellence and staying qualities of sheet metal.

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STORM PROOF. EFFECTIVE.

For Ventilating Churches, School Houses, Public Buildings, Residences, Barns; also, Cotton and Woolen Mills, Machine Shops, Foundries, Dye Houses, and Factories of All Kinds.

The Combination Skylight "Star" Ventilators gives light as well as ventilation. Write for booklet illustrating the Ventilator, and which contains full information regarding the merits of this device. Prices Named on Application.

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BEST IN THE WORLD.

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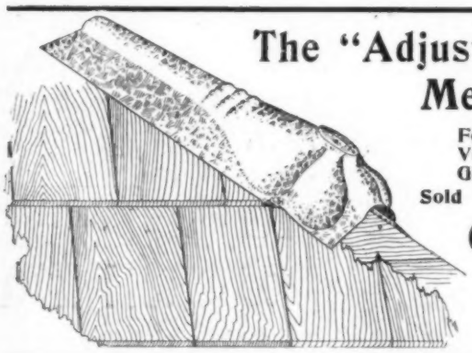

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Shears, Presses and Dies, Punches, Rolls.

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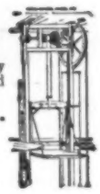

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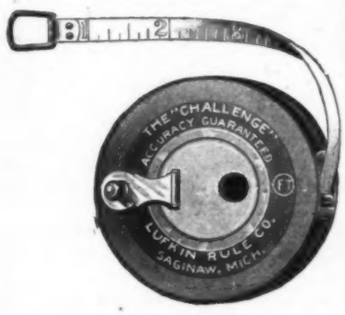

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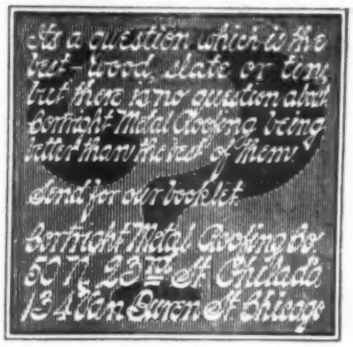

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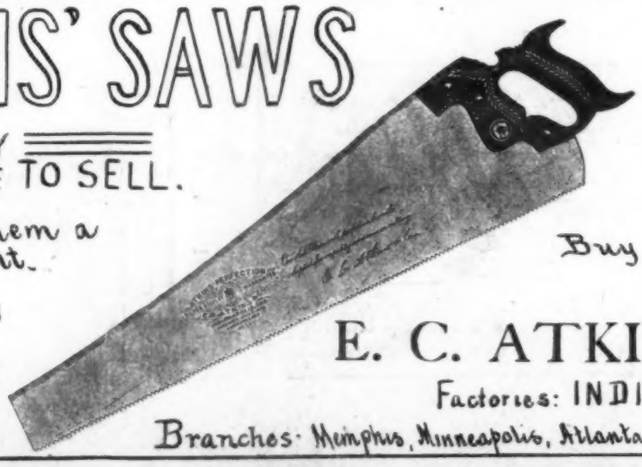

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